

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P533146

Luminaire Tested: **GALN-SA8C-740-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533146
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8C-740-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48118 lumens
Efficiency: N/A
Efficacy: 112.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G4

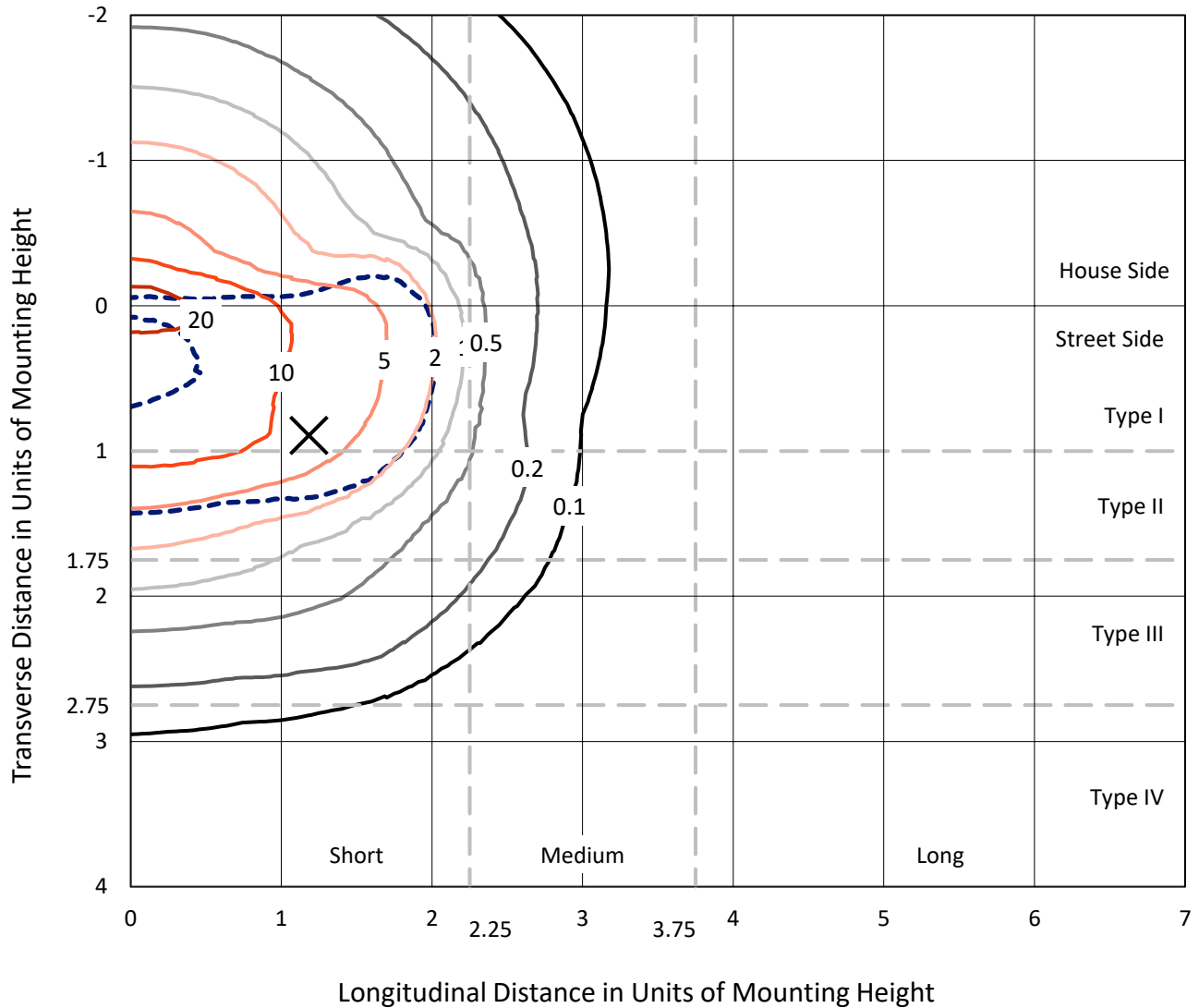
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

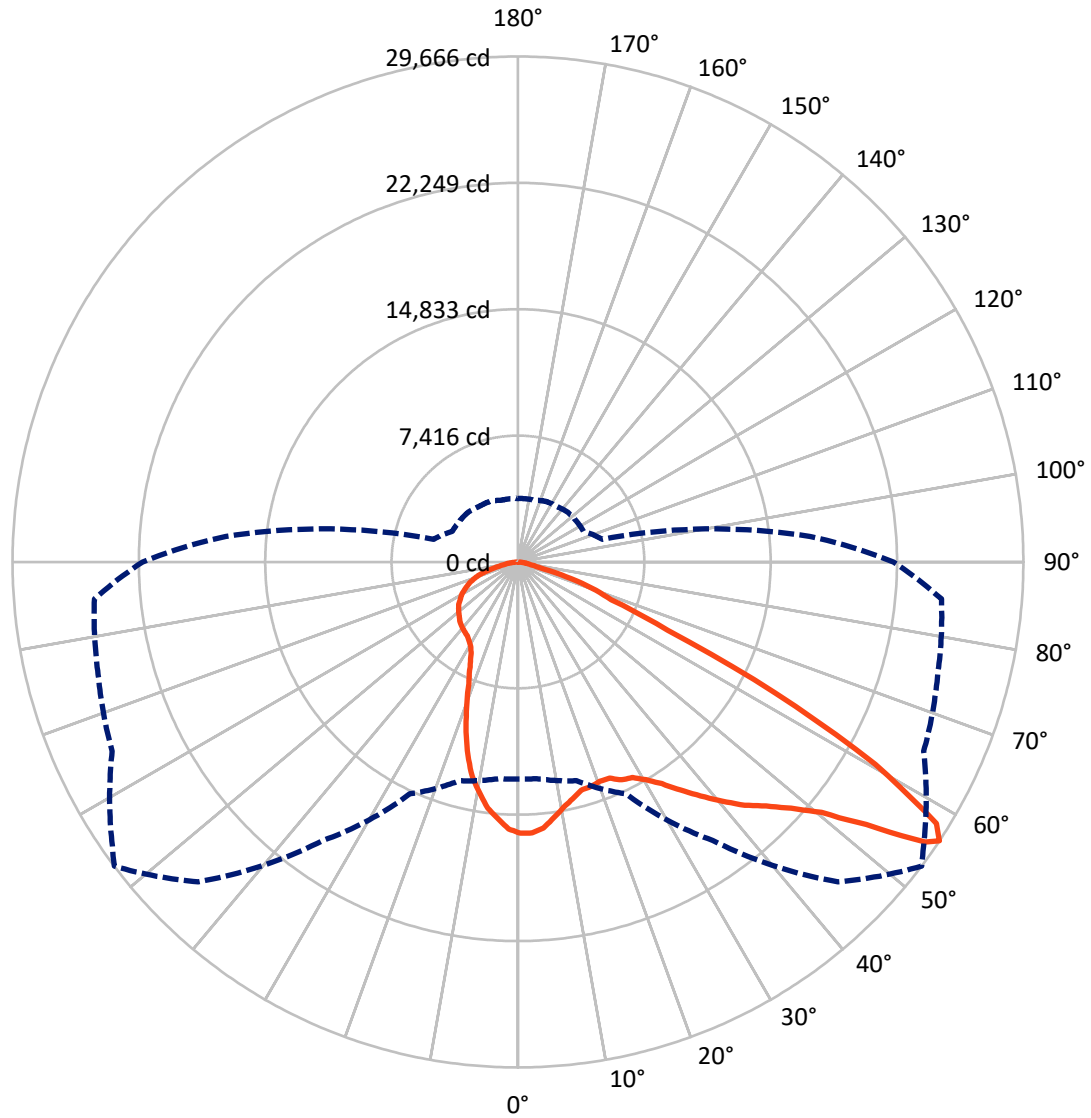
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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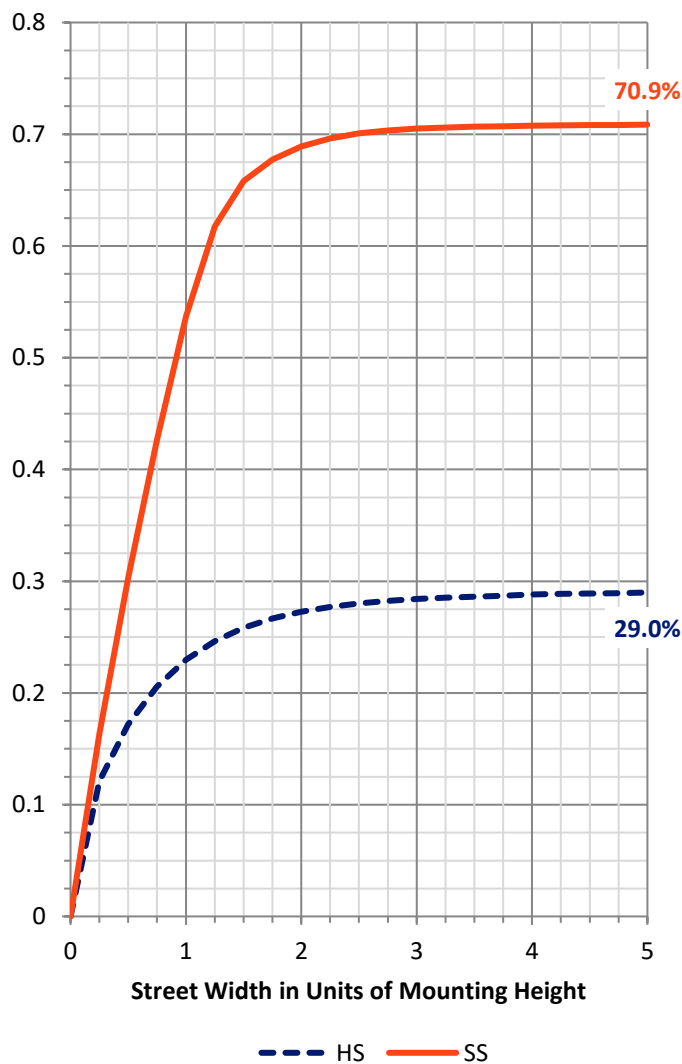
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14041.9	0.0	14041.9
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	34076.1	0.0	34076.1
	% Fixture	70.8	0.0	70.8
Total	Lumens	48118.0	0.0	48118.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1409.3	2.9
10°-20°	3519.9	7.3
20°-30°	5190.3	10.8
30°-40°	7416.0	15.4
40°-50°	10207.1	21.2
50°-60°	12062.1	25.1
60°-70°	6428.3	13.4
70°-80°	1630.8	3.4
80°-90°	254.3	0.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	48118.0	100.0
0°-180°	48118.0	100.0

Coefficient of Utilization

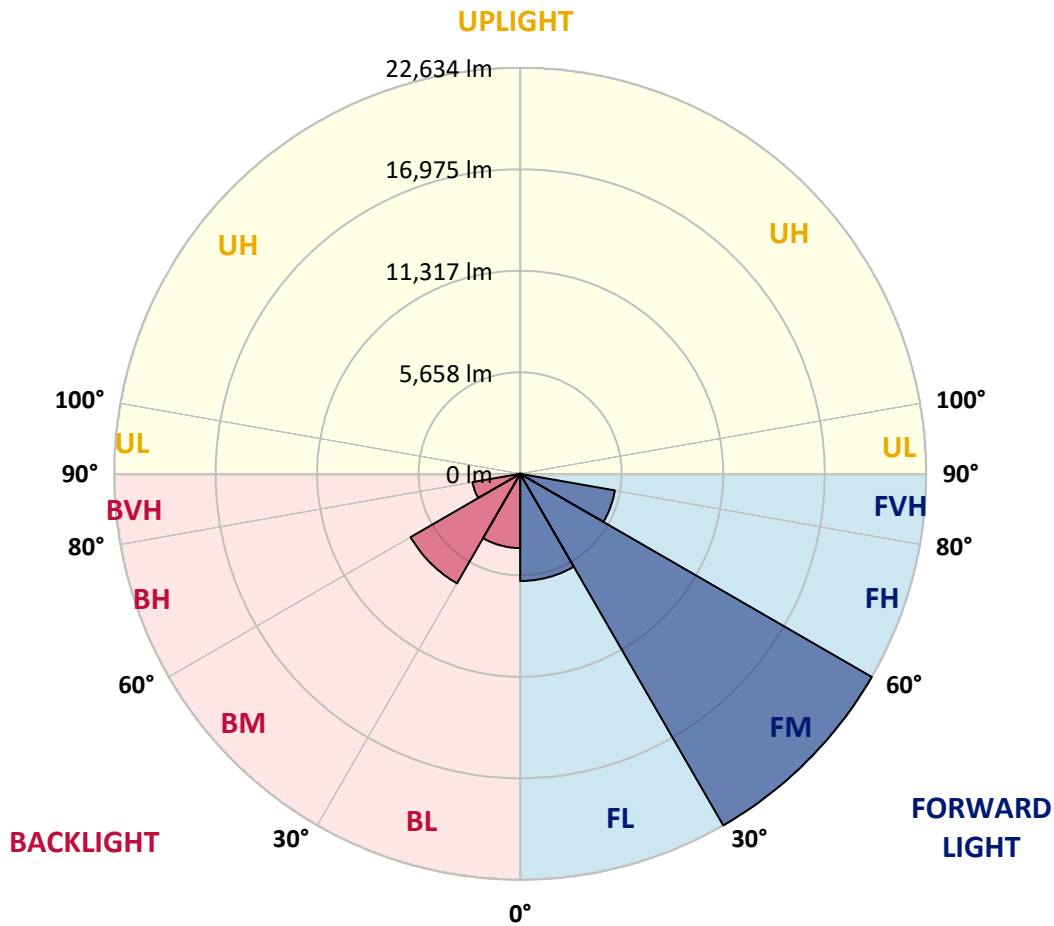


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5978.0	12.4			
FM (30°-60°)	22633.8	47.0			
FH (60°-80°)	5362.2	11.1			G3/7500
FVH (80°-90°)	102.2	0.2			G2/225
BL (0°-30°)	4141.5	8.6	B4/5000		
BM (30°-60°)	7051.4	14.7	B4/8500		
BH (60°-80°)	2696.9	5.6	B4/5000		G4/5000
BVH (80°-90°)	152.1	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	15919.3	15919.3	15919.3	15919.3	15919.3	15919.3	15919.3	15919.3	15919.3	15919.3	15919.3
2.5°	15721.8	15586.0	15666.3	15635.4	15888.5	15962.5	15925.5	15956.4	16098.3	16030.4	15888.5
5°	14691.0	14882.3	14919.4	15011.9	15160.1	15450.2	15678.6	15740.3	15808.2	16123.0	16092.2
7.5°	13752.7	13882.3	13814.4	14086.0	14407.0	14876.1	15153.9	15203.3	15826.7	15999.6	16129.2
10°	13160.1	13030.5	13339.2	13413.2	13777.4	14314.4	14647.8	14851.5	15419.3	16104.5	16184.8
12.5°	12610.8	12567.6	12752.7	12962.6	13370.0	13925.6	14265.1	14345.3	15221.8	15944.0	16320.6
15°	12203.4	12154.0	12339.2	12493.5	12968.8	13462.6	13894.7	14123.1	15005.8	15851.4	16203.3
17.5°	11882.4	11876.2	11981.2	12258.9	12746.6	13160.1	13857.7	13870.0	14894.7	15993.4	16302.0
20°	11863.9	11857.7	11876.2	12184.9	12629.3	13135.5	13740.4	13851.5	14894.7	15894.6	16308.2
22.5°	12018.2	11919.4	12030.5	12228.1	12549.0	13178.7	13783.6	14030.5	15252.7	16382.3	16586.0
25°	12265.1	12289.8	12351.5	12419.4	12604.6	13277.4	14166.3	14370.0	15672.4	16802.0	16968.7
27.5°	12715.7	12703.4	12728.1	12765.1	12925.6	13370.0	14320.6	14845.3	16548.9	17548.9	17382.3
30°	13376.2	13333.0	13431.7	13561.4	13413.2	13666.3	14832.9	15228.0	17363.7	18302.0	17845.2
32.5°	13974.9	14135.4	14320.6	14376.2	14197.2	14246.5	15511.9	15913.2	18042.7	19227.9	18413.1
35°	14721.8	14851.5	15098.4	15271.2	15240.3	15092.2	16437.8	16968.7	19024.2	19906.9	19011.8
37.5°	15450.2	15604.5	16011.9	16524.3	16240.3	16172.4	17425.5	17863.7	19326.6	20271.1	19450.1
40°	16623.0	16616.8	17320.5	17586.0	17839.0	17721.8	18450.1	18598.3	19487.1	20190.8	19462.4
42.5°	17999.5	17913.1	18629.1	19042.7	19369.9	19382.2	19518.0	19468.6	19561.2	19783.4	19332.8
45°	19308.1	19493.3	20215.5	20956.2	21283.4	21320.4	20419.2	20326.6	19690.8	19666.1	19085.9
47.5°	20906.9	20950.1	21542.6	22517.9	23277.2	23017.9	21585.8	21382.1	20258.7	20450.1	19499.5
50°	20999.4	21320.4	21851.3	22999.4	25332.7	25264.8	23098.2	22715.4	21172.3	21561.2	20653.8
52.5°	19061.2	18987.2	19616.8	21493.3	25178.3	27499.3	25604.3	24690.7	23135.2	22838.9	22524.1
55°	14524.3	14697.1	15252.7	17147.7	21863.6	27530.1	29017.7	28270.9	25233.9	24727.7	24363.6
56°	12740.4	12765.1	13289.8	15018.1	19950.1	26548.7	29665.9	29061.0	26277.1	25505.5	24950.0
57.5°	10561.4	10419.5	10691.1	11635.5	16839.1	24474.7	28956.0	29548.6	27499.3	26345.0	25573.4
60°	8314.6	8283.7	8172.6	8345.5	10641.7	18437.8	24104.3	25437.6	27375.8	25554.9	24493.2
62.5°	6789.9	6635.6	6857.8	7104.7	7394.9	11438.0	16937.8	17721.8	21734.0	20400.7	18400.7
65°	5265.3	5191.2	5469.0	6271.4	6444.3	7265.2	9647.9	10252.8	12833.0	12604.6	11098.5
67.5°	3623.4	3635.7	3876.4	5098.6	5975.2	5901.1	5907.3	6222.1	6697.4	4975.2	4333.2
70°	2296.2	2290.1	2419.7	3283.9	4808.5	4857.9	4611.0	4518.4	4283.8	2592.5	2746.8
72.5°	1475.3	1432.1	1500.0	1814.8	2487.6	2876.5	2962.9	3018.4	2481.4	2037.0	2209.8
75°	833.3	790.1	765.4	845.7	981.5	1135.8	1246.9	1283.9	1438.2	1543.2	1635.8
77.5°	253.1	228.4	277.8	370.4	487.6	654.3	796.3	821.0	969.1	1092.6	1185.2
80°	111.1	123.5	172.8	246.9	345.7	463.0	561.7	598.7	697.5	790.1	814.8
82.5°	67.9	74.1	117.3	166.7	240.7	327.2	401.2	413.6	512.3	586.4	604.9
85°	24.7	30.9	61.7	98.8	154.3	209.9	209.9	228.4	209.9	209.9	228.4
87.5°	0.0	0.0	6.2	12.3	12.3	18.5	24.7	24.7	30.9	37.0	43.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	15919.3	15919.3	15919.3	15919.3	15919.3	15919.3	15919.3	15919.3	15919.3	15919.3	15919.3
2.5°	15962.5	15931.7	15882.3	15703.3	15684.8	15629.2	15320.6	15271.2	15320.6	15172.4	15184.8
5°	15931.7	16024.3	15653.9	15474.9	15141.6	14900.8	14623.1	14481.1	14228.0	14067.5	14246.5
7.5°	16067.5	16030.4	15567.5	15178.6	14678.6	14067.5	13579.9	13302.1	12857.7	12734.2	12826.8
10°	16018.1	15820.6	15277.4	14765.0	13820.6	13283.6	12493.5	11728.1	11308.3	11092.3	11061.4
12.5°	15950.2	15894.6	14987.3	14104.6	13110.8	11981.2	10870.1	10147.9	9462.7	9166.4	9209.6
15°	16030.4	15561.3	14444.1	13326.8	12005.9	10524.4	9326.9	8394.8	7919.5	7728.2	7728.2
17.5°	15993.4	15400.8	14184.8	12456.5	10783.7	9030.6	7715.8	7154.1	6956.6	6956.6	7012.2
20°	16011.9	15505.8	13660.1	11586.1	9339.3	7604.7	6648.0	6444.3	6530.7	6561.6	6592.4
22.5°	16116.9	15160.1	13147.8	10629.3	7999.8	6506.0	6036.9	6043.0	6197.4	6364.0	6333.2
25°	16246.5	15024.3	12524.4	9678.8	6975.1	5969.0	5820.8	5802.3	5919.6	6006.0	6018.4
27.5°	16135.4	14789.7	11888.6	8493.6	6135.6	5611.0	5580.1	5592.4	5629.5	5802.3	5746.8
30°	16499.6	14857.6	11092.3	7499.8	5672.7	5493.7	5456.6	5438.1	5493.7	5543.1	5499.9
32.5°	16950.2	14616.9	10499.7	6543.0	5444.3	5407.3	5333.2	5308.5	5339.4	5290.0	5314.7
35°	17147.7	14573.7	9728.1	5857.9	5265.3	5234.4	5191.2	5185.0	5191.2	5148.0	5111.0
37.5°	17258.8	14777.4	8845.4	5543.1	5154.2	5185.0	5086.3	5073.9	4962.8	4987.5	5006.0
40°	17450.2	14462.6	8129.4	5240.6	5086.3	5024.6	4938.1	4919.6	4845.6	4802.3	4845.6
42.5°	17172.4	14370.0	7425.7	5111.0	4987.5	4919.6	4857.9	4753.0	4728.3	4691.2	4666.5
45°	16950.2	13839.1	6796.1	4950.5	4870.2	4833.2	4715.9	4604.8	4512.2	4549.3	4493.7
47.5°	17116.8	13654.0	6172.7	4814.7	4709.8	4666.5	4549.3	4462.8	4370.3	4327.0	4314.7
50°	17783.5	13999.6	5648.0	4715.9	4574.0	4549.3	4394.9	4296.2	4209.8	4178.9	4191.2
52.5°	19376.0	14944.0	5290.0	4512.2	4444.3	4333.2	4246.8	4123.3	4067.8	3969.0	4030.8
55°	21394.5	16481.0	5197.4	4320.9	4283.8	4185.1	4067.8	3975.2	3870.3	3790.0	3771.5
56°	22042.6	17215.6	5123.3	4246.8	4185.1	4129.5	3975.2	3919.6	3753.0	3734.5	3722.1
57.5°	22567.3	17863.7	5135.7	4104.8	4043.1	3993.7	3901.1	3765.3	3654.2	3586.3	3617.2
60°	21382.1	16721.8	4901.1	3888.8	3876.4	3783.9	3654.2	3592.5	3456.7	3376.5	3357.9
62.5°	15894.6	11351.6	3975.2	3611.0	3604.8	3506.1	3357.9	3290.0	3265.3	3154.2	3154.2
65°	9154.1	7117.1	3438.2	3382.6	3333.2	3234.5	3086.3	3030.8	2969.1	2932.0	2901.2
67.5°	3907.3	3691.3	3123.4	3117.2	3061.6	2938.2	2790.0	2703.6	2623.4	2549.3	2586.4
70°	2833.3	2876.5	2820.9	2790.0	2722.2	2567.8	2438.2	2333.3	2209.8	2160.4	2197.5
72.5°	2246.9	2339.4	2419.7	2425.9	2345.6	2166.6	2024.6	1882.7	1746.9	1679.0	1709.8
75°	1703.7	1765.4	1845.6	1864.1	1746.9	1623.4	1487.6	1339.5	1234.5	1154.3	1166.6
77.5°	1228.4	1216.0	1290.1	1277.7	1222.2	1135.8	1012.3	876.5	759.2	685.2	691.3
80°	839.5	858.0	901.2	895.0	827.1	771.6	679.0	567.9	481.5	419.7	407.4
82.5°	586.4	617.3	654.3	623.4	567.9	512.3	444.4	364.2	296.3	246.9	234.6
85°	209.9	240.7	277.8	296.3	314.8	302.5	253.1	203.7	148.1	123.5	117.3
87.5°	43.2	49.4	55.6	55.6	55.6	49.4	43.2	43.2	37.0	18.5	18.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)