

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: P531689

Luminaire Tested: **GALN-SA7A-730-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531689
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7A-730-U-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16932 lumens
Efficiency: N/A
Efficacy: 78.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

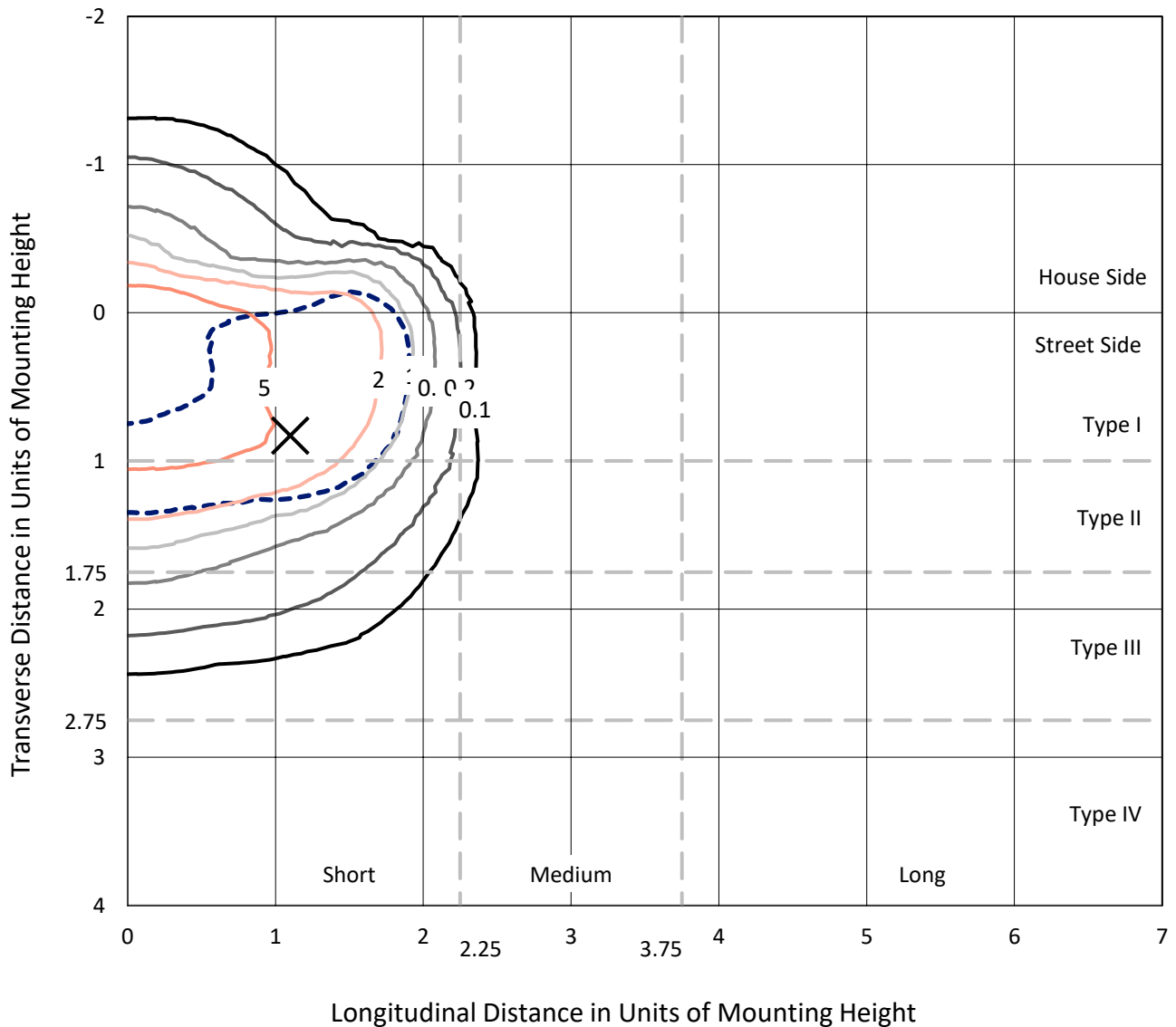
Input Watts (W): 215
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

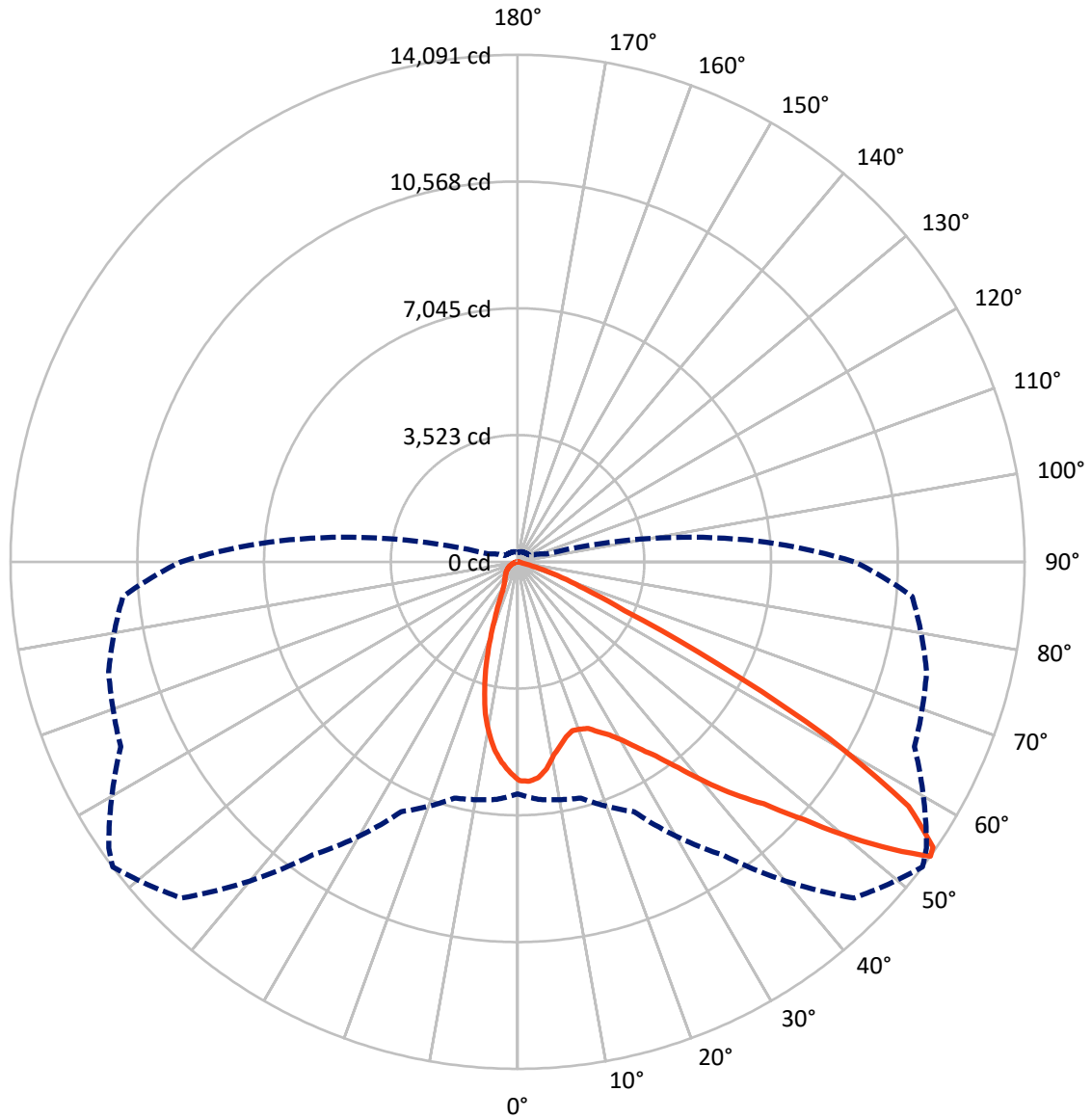
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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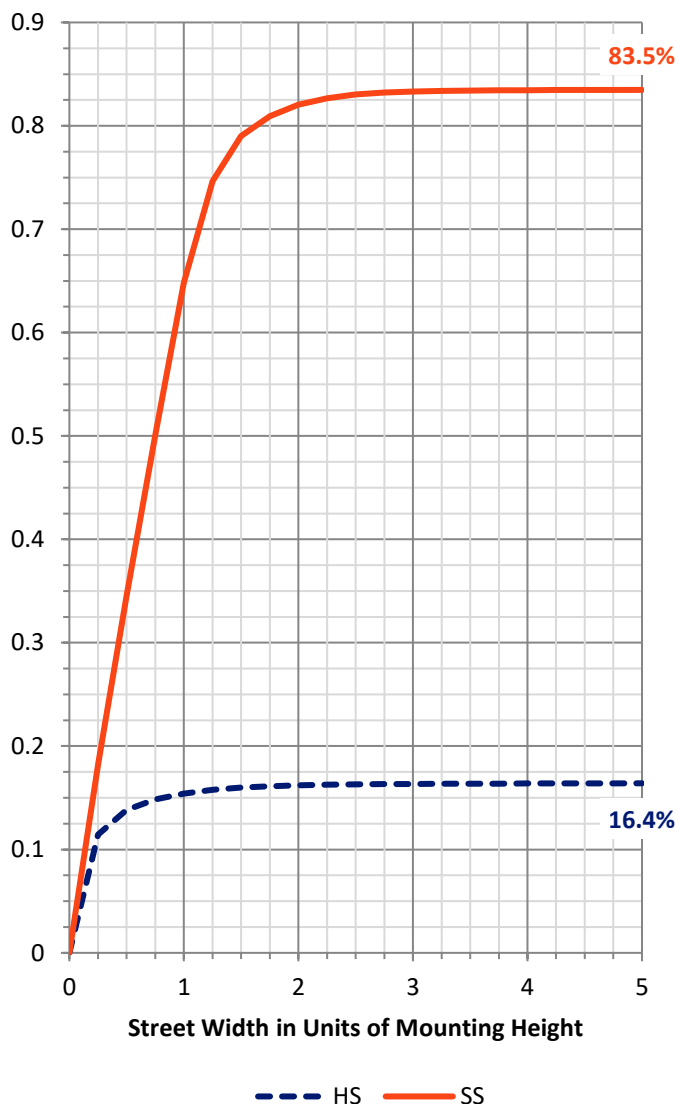
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2801.5	0.0	2801.5
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	14130.6	0.0	14130.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	16932.0	0.0	16932.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	521.8	3.1
10°-20°	1196.3	7.1
20°-30°	1700.2	10.0
30°-40°	2623.9	15.5
40°-50°	4114.0	24.3
50°-60°	4779.0	28.2
60°-70°	1805.8	10.7
70°-80°	171.7	1.0
80°-90°	19.3	0.1
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°	16932.0	100.0
0°-180°	16932.0	100.0

Coefficient of Utilization

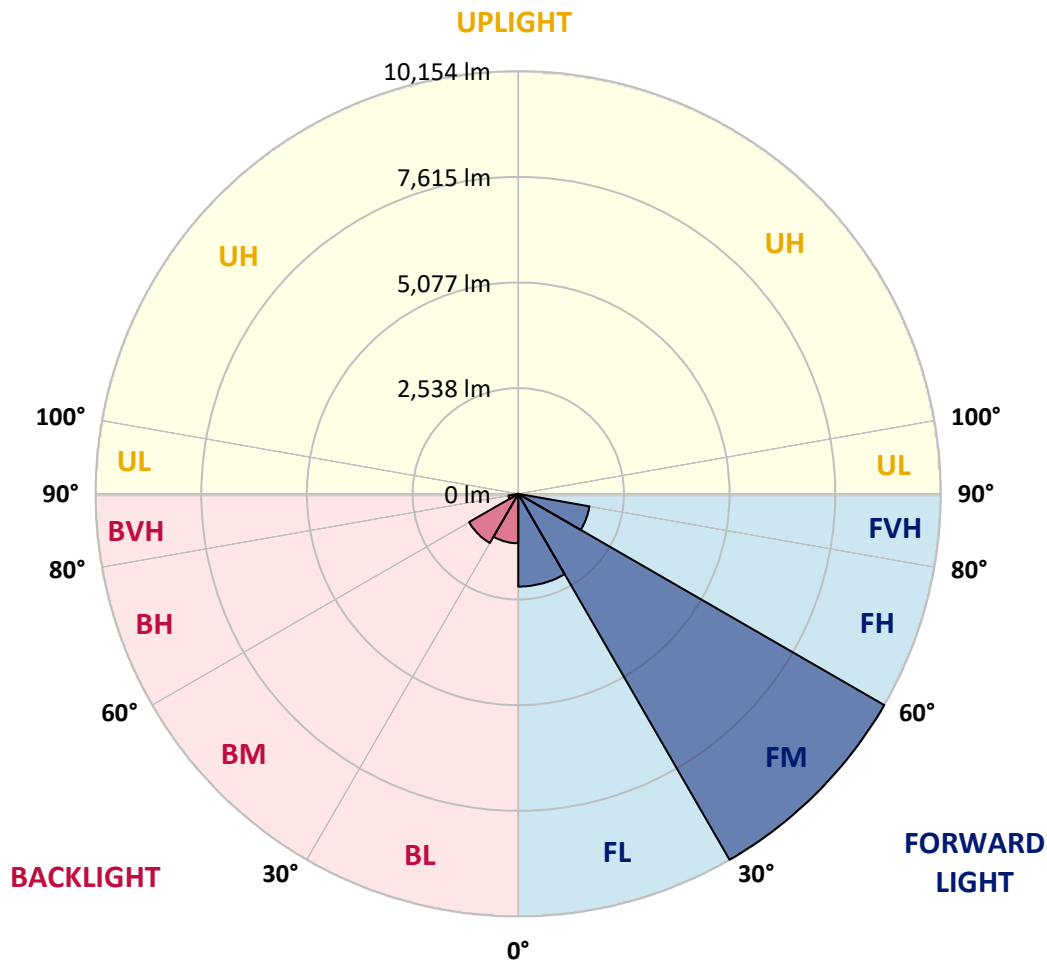


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2229.5	13.2			
FM (30°-60°)	10153.6	60.0			
FH (60°-80°)	1737.5	10.3			G1/1800
FVH (80°-90°)	10.0	0.1			G0/10
BL (0°-30°)	1188.8	7.0	B3/2500		
BM (30°-60°)	1363.3	8.1	B2/2500		
BH (60°-80°)	240.0	1.4	B1/500		G1/500
BVH (80°-90°)	9.3	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	6081.7	6081.7	6081.7	6081.7	6081.7	6081.7	6081.7	6081.7	6081.7	6081.7	6081.7
2.5°	6050.1	5996.5	6050.1	6056.5	6094.3	6129.0	6106.9	6157.4	6129.0	6097.5	6088.0
5°	5561.2	5633.8	5636.9	5750.5	5725.2	5933.4	6024.9	5999.7	6154.2	6144.8	6122.7
7.5°	5122.8	5094.4	5132.2	5264.7	5431.9	5671.6	5804.1	5800.9	6021.8	6179.5	6163.7
10°	4715.8	4712.7	4791.5	4895.6	5037.6	5289.9	5472.9	5564.4	5908.2	6147.9	6182.6
12.5°	4441.4	4428.8	4514.0	4599.1	4823.1	5018.7	5252.1	5296.2	5690.5	6037.5	6094.3
15°	4261.6	4290.0	4296.3	4460.3	4602.3	4860.9	5043.9	5135.4	5589.6	5949.2	6166.9
17.5°	4230.1	4267.9	4271.1	4406.7	4558.1	4775.8	4936.6	5059.7	5504.4	5993.4	6170.0
20°	4293.1	4271.1	4290.0	4375.2	4523.4	4731.6	4965.0	5006.0	5476.0	6015.4	6204.7
22.5°	4472.9	4466.6	4419.3	4488.7	4592.8	4810.5	5031.3	5094.4	5558.1	6129.0	6233.1
25°	4671.7	4706.4	4662.2	4652.7	4725.3	4939.8	5233.2	5315.2	5832.5	6334.0	6321.4
27.5°	5043.9	5009.2	5009.2	4965.0	4946.1	5050.2	5450.8	5586.4	6138.5	6599.0	6422.4
30°	5400.3	5438.2	5409.8	5425.6	5299.4	5289.9	5759.9	5927.1	6681.0	7002.8	6636.9
32.5°	5965.0	5914.5	5961.8	5920.8	5753.6	5583.3	6179.5	6353.0	7337.1	7466.5	6958.6
35°	6435.0	6412.9	6614.8	6608.5	6337.2	6170.0	6624.2	6882.9	7794.5	8021.6	7337.1
37.5°	7103.7	7062.7	7293.0	7403.4	7160.5	6911.3	7261.4	7561.1	8220.4	8466.4	7725.1
40°	7791.4	7895.5	8204.6	8387.6	8128.9	7797.7	8040.6	8132.1	8504.3	8756.6	7990.1
42.5°	8662.0	8813.4	9128.8	9286.6	9264.5	8904.9	8832.3	8829.2	8709.3	8674.6	8185.7
45°	9497.9	9441.1	9926.9	10270.7	10548.3	10444.2	9595.7	9501.1	9034.2	8797.6	8236.1
47.5°	9863.8	9844.9	10176.1	10788.1	11734.4	11863.7	10706.0	10340.1	9583.1	9315.0	8510.6
50°	9390.7	9488.4	9816.5	10494.7	11945.7	12933.1	12068.7	11576.7	10223.4	9945.8	9160.4
52.5°	7845.0	7911.2	8223.5	9084.7	11226.5	13563.9	13374.7	13090.8	11400.0	10939.5	10292.8
54°	6450.8	6627.4	6797.7	7662.0	9945.8	13213.8	14090.7	13873.1	12166.5	11765.9	11005.7
55°	5618.0	5722.1	5845.1	6706.3	9059.4	12620.8	14008.7	14027.6	12680.7	12024.6	11485.2
57.5°	4103.9	4176.4	4050.3	4431.9	6220.5	10248.7	12813.2	13324.2	13374.7	12412.6	11778.5
60°	3135.5	3167.0	3025.1	3085.0	3867.3	7034.3	9911.1	10526.2	12065.6	10848.0	9977.4
62.5°	2432.0	2438.4	2435.2	2539.3	2665.5	4138.6	6198.4	6744.1	8318.2	7703.1	6775.7
65°	1791.7	1763.3	1813.8	2129.2	2274.3	2602.4	3264.8	3662.3	4520.3	3816.8	2728.6
67.5°	1160.8	1170.3	1220.8	1583.5	1949.4	1996.7	2009.4	1977.8	1981.0	1091.4	684.5
70°	697.1	712.9	697.1	895.9	1394.2	1432.1	1309.1	1277.5	996.8	258.7	255.5
72.5°	413.2	391.1	350.1	384.8	580.4	694.0	624.6	621.4	391.1	151.4	151.4
75°	173.5	157.7	129.3	116.7	154.6	148.3	148.3	132.5	104.1	100.9	94.6
77.5°	34.7	34.7	25.2	28.4	37.9	44.2	53.6	53.6	63.1	63.1	59.9
80°	0.0	3.2	9.5	18.9	28.4	41.0	47.3	47.3	53.6	53.6	44.2
82.5°	0.0	3.2	9.5	18.9	25.2	37.9	47.3	47.3	53.6	56.8	47.3
85°	0.0	3.2	9.5	15.8	25.2	31.5	31.5	28.4	22.1	18.9	12.6
87.5°	0.0	0.0	3.2	6.3	3.2	6.3	6.3	6.3	6.3	6.3	6.3
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°	6081.7	6081.7	6081.7	6081.7	6081.7	6081.7	6081.7	6081.7	6081.7	6081.7	6081.7
2.5°	6110.1	6106.9	6031.2	5908.2	5879.8	5775.7	5763.1	5700.0	5734.7	5618.0	5605.4
5°	6059.6	6021.8	5930.3	5851.4	5621.1	5457.1	5327.8	5170.1	5078.6	5094.4	5034.4
7.5°	6132.2	6034.4	5873.5	5599.1	5318.3	5031.3	4876.7	4555.0	4438.2	4264.8	4239.5
10°	6056.5	5983.9	5734.7	5280.5	4892.5	4479.3	4116.5	3760.0	3488.8	3372.1	3346.8
12.5°	6050.1	5924.0	5507.6	5002.9	4441.4	3848.4	3321.6	2876.8	2608.7	2457.3	2422.6
15°	5952.4	5800.9	5252.1	4573.9	3797.9	3059.8	2485.7	2056.7	1851.6	1763.3	1788.5
17.5°	5961.8	5734.7	4996.6	4119.7	3163.9	2245.9	1697.1	1476.3	1422.6	1444.7	1444.7
20°	5952.4	5586.4	4687.4	3596.0	2422.6	1558.3	1246.0	1167.1	1201.8	1271.2	1255.5
22.5°	5901.9	5517.1	4403.5	3044.0	1782.2	1154.5	999.9	1003.1	1056.7	1141.9	1160.8
25°	5939.7	5362.5	4043.9	2485.7	1299.6	921.1	867.5	889.5	946.3	1009.4	1022.0
27.5°	5911.4	5252.1	3668.6	1930.5	949.5	791.8	788.6	813.8	839.1	886.4	886.4
30°	5942.9	5151.1	3299.5	1435.3	782.3	725.5	712.9	731.8	757.1	766.5	763.4
32.5°	6059.6	5075.4	2873.7	1072.5	690.8	662.4	662.4	662.4	659.3	671.9	675.0
35°	6315.1	5088.1	2498.3	829.6	630.9	608.8	599.3	586.7	580.4	586.7	589.9
37.5°	6592.7	5081.7	2110.3	706.6	586.7	567.8	545.7	526.8	523.6	529.9	520.5
40°	6715.7	5141.7	1750.7	634.0	545.7	523.6	488.9	473.2	476.3	482.6	476.3
42.5°	6882.9	5160.6	1517.3	577.3	507.9	473.2	451.1	432.2	429.0	438.5	435.3
45°	6879.8	5053.4	1271.2	545.7	473.2	435.3	406.9	391.1	391.1	397.5	400.6
47.5°	7081.6	5037.6	1091.4	517.3	447.9	410.1	375.4	362.8	359.6	359.6	353.3
50°	7551.6	5258.4	952.6	485.8	416.4	381.7	353.3	337.5	324.9	318.6	315.4
52.5°	8469.6	5946.0	845.4	447.9	381.7	353.3	328.1	315.4	299.7	283.9	280.7
54°	9359.1	6655.8	839.1	416.4	353.3	334.4	312.3	306.0	287.1	265.0	258.7
55°	9759.7	7069.0	861.2	391.1	334.4	321.7	302.8	296.5	277.6	252.4	249.2
57.5°	10090.9	7229.9	848.5	324.9	302.8	299.7	283.9	274.4	252.4	217.7	211.3
60°	8122.6	5466.6	608.8	287.1	277.6	271.3	258.7	252.4	224.0	186.1	183.0
62.5°	5132.2	3144.9	388.0	252.4	242.9	233.4	217.7	211.3	186.1	148.3	138.8
65°	2186.0	1302.8	261.8	224.0	208.2	192.4	179.8	170.3	148.3	110.4	107.2
67.5°	567.8	463.7	217.7	195.6	173.5	151.4	141.9	126.2	100.9	75.7	72.6
70°	255.5	233.4	183.0	164.0	138.8	116.7	104.1	88.3	66.2	50.5	47.3
72.5°	151.4	148.3	138.8	123.0	104.1	88.3	75.7	59.9	44.2	28.4	28.4
75°	94.6	91.5	94.6	85.2	72.6	66.2	56.8	41.0	25.2	12.6	12.6
77.5°	56.8	56.8	56.8	53.6	50.5	50.5	41.0	25.2	12.6	3.2	3.2
80°	44.2	44.2	47.3	44.2	44.2	44.2	34.7	18.9	6.3	0.0	0.0
82.5°	44.2	47.3	53.6	50.5	44.2	37.9	31.5	18.9	6.3	0.0	0.0
85°	12.6	9.5	15.8	22.1	31.5	28.4	22.1	15.8	6.3	0.0	0.0
87.5°	6.3	6.3	6.3	6.3	3.2	3.2	3.2	3.2	3.2	0.0	0.0
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)