

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: P533797

Luminaire Tested: **GALN-SA9B-730-U-SL3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533797
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9B-730-U-SL3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27474 lumens
Efficiency: N/A
Efficacy: 75.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

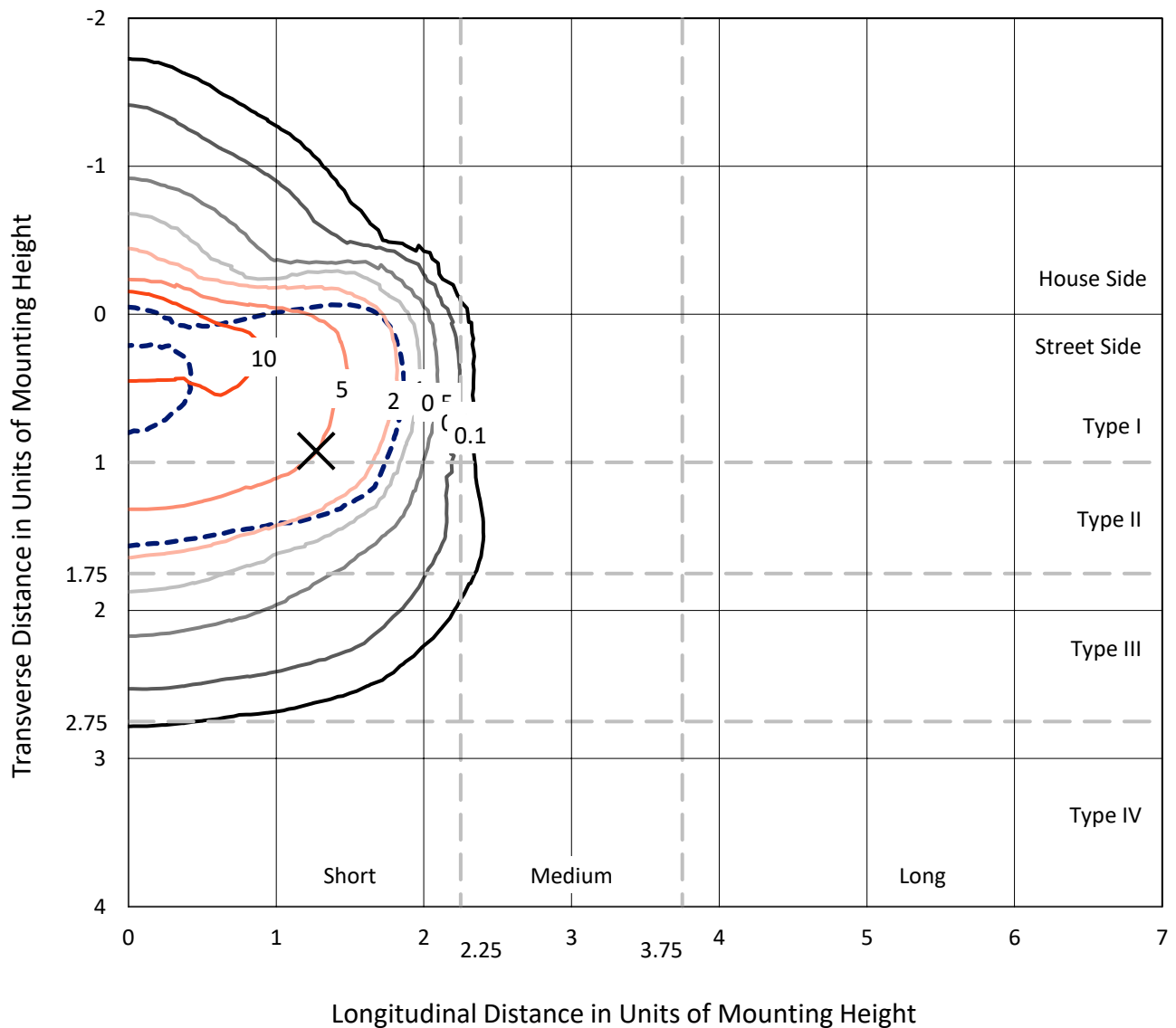
Input Watts (W): 364
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

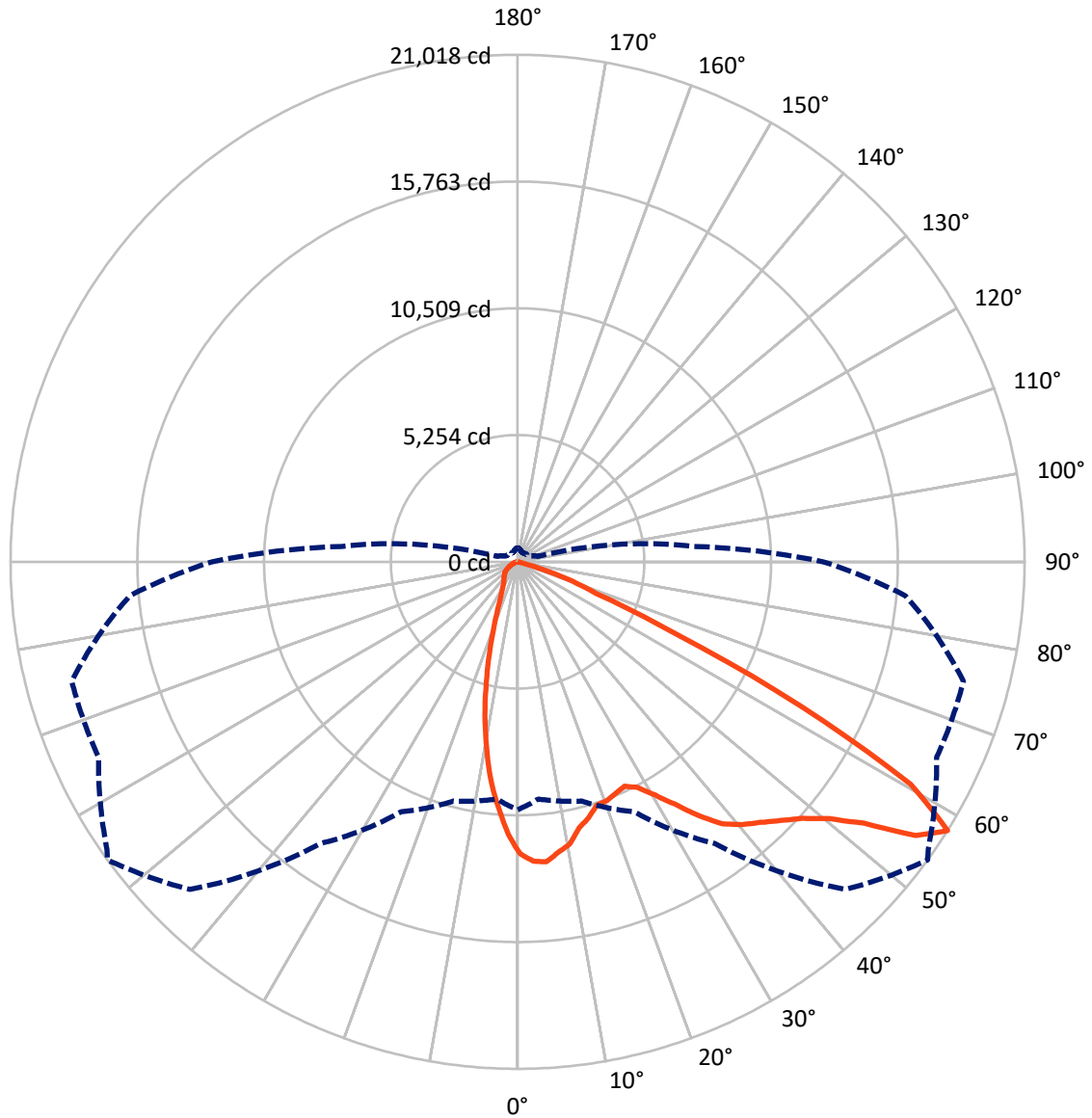
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 19.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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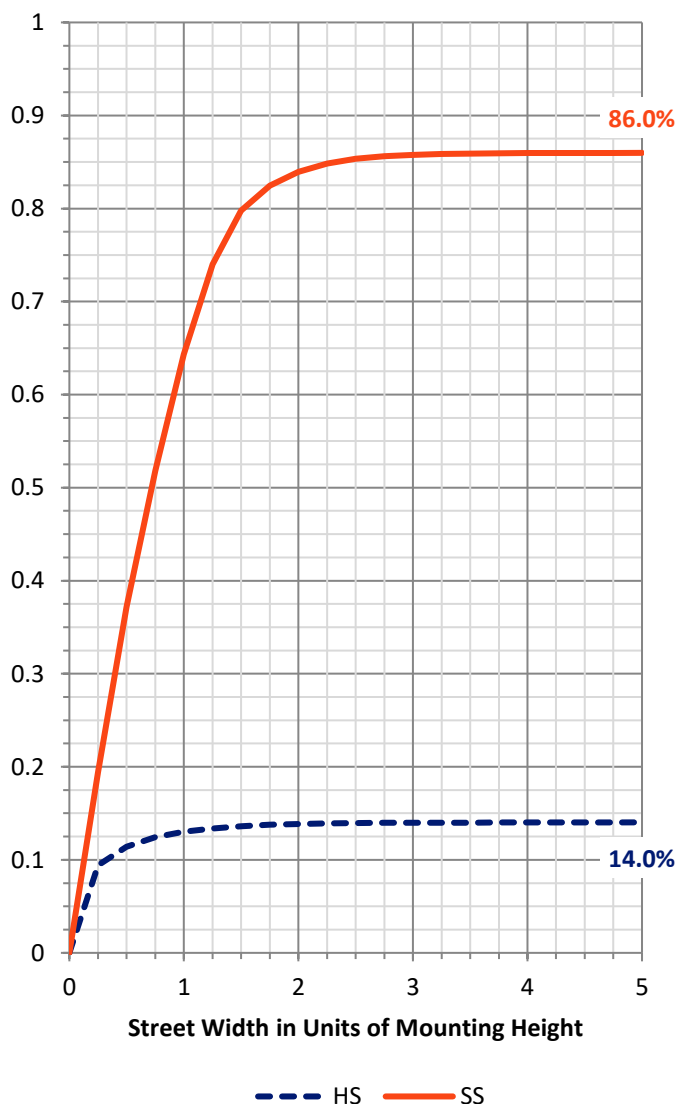
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3882.5	0.0	3882.5
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	23591.5	0.0	23591.5
	% Fixture	85.9	0.0	85.9
Total	Lumens	27474.0	0.0	27474.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1012.8	3.7
10°-20°	2162.3	7.9
20°-30°	2865.4	10.4
30°-40°	4164.3	15.2
40°-50°	6175.0	22.5
50°-60°	7721.6	28.1
60°-70°	3045.8	11.1
70°-80°	303.3	1.1
80°-90°	23.6	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°	27474.0	100.0
0°-180°	27474.0	100.0

Coefficient of Utilization



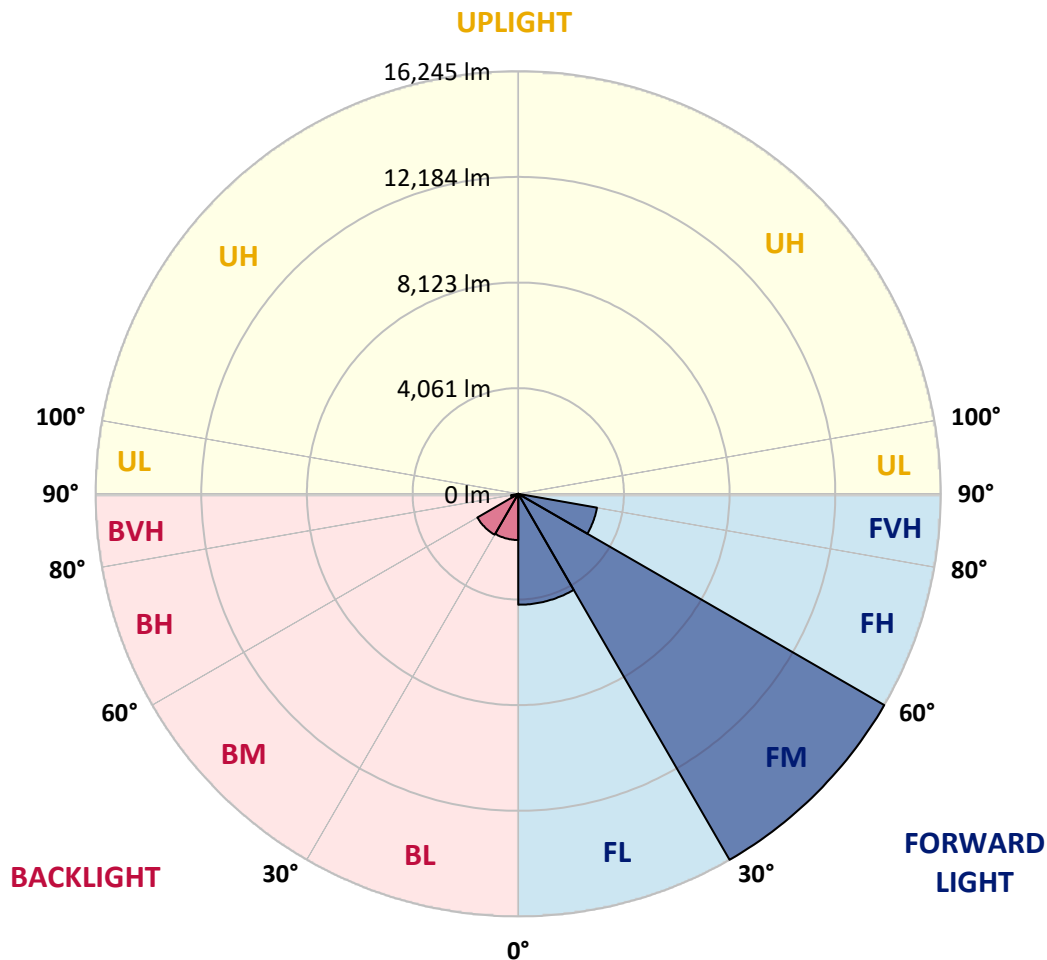
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4264.8	15.5			
FM (30°-60°)	16245.3	59.1			
FH (60°-80°)	3070.7	11.2			G2/5000
FVH (80°-90°)	10.7	0.0			G1/100
BL (0°-30°)	1775.7	6.5	B3/2500		
BM (30°-60°)	1815.6	6.6	B2/2500		
BH (60°-80°)	278.4	1.0	B1/500		G1/500
BVH (80°-90°)	12.9	0.0			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	12102.7	12102.7	12102.7	12102.7	12102.7	12102.7	12102.7	12102.7	12102.7	12102.7	12102.7
2.5°	12807.7	12674.8	12685.1	12639.1	12577.8	12623.8	12424.5	12470.5	12465.4	12194.6	12015.8
5°	12485.8	12628.9	12480.7	12603.3	12485.8	12613.5	12490.9	12399.0	12250.8	12051.6	11719.5
7.5°	11939.2	11801.2	11842.1	11995.4	12020.9	12307.0	12153.8	12271.3	12210.0	11816.6	11361.9
10°	10840.8	10810.1	11014.5	11218.9	11469.2	11775.7	11893.2	11826.8	11780.8	11632.7	11024.7
12.5°	9997.9	10084.7	10079.6	10416.8	10840.8	11014.5	11321.0	11310.8	11566.2	11290.4	10708.0
15°	9195.8	9241.8	9456.3	9665.8	10135.8	10631.3	11009.4	11060.5	11367.0	11172.9	10462.8
17.5°	8705.3	8638.9	8807.5	9057.8	9538.1	10186.9	10605.8	10728.4	11147.3	11106.5	10181.8
20°	8220.0	8220.0	8357.9	8654.2	9093.6	9824.2	10570.0	10534.3	11147.3	11029.8	9880.4
22.5°	8056.5	8138.3	8174.0	8398.8	8919.9	9548.3	10416.8	10483.2	11234.2	10994.1	9747.5
25°	8281.3	8174.0	8184.2	8363.1	8853.5	9415.5	10304.4	10452.5	11392.5	11172.9	9640.2
27.5°	8317.1	8424.4	8455.0	8577.6	8904.6	9456.3	10585.4	10886.8	11785.9	11591.8	9670.9
30°	8628.7	8736.0	8730.9	8940.3	9165.1	9788.4	11213.7	11275.0	12598.2	12118.0	9859.9
32.5°	9006.8	9119.1	9154.9	9400.1	9578.9	10396.3	11980.1	12138.4	13379.9	12945.6	10355.5
35°	9476.8	9435.9	9599.4	9844.6	10227.7	11285.3	12915.0	13180.6	14222.8	14018.5	10866.3
37.5°	10064.3	10013.2	10171.6	10570.0	11091.1	12337.7	13778.3	13952.0	14835.9	15014.7	11811.5
40°	10478.1	10498.5	10978.7	11515.2	12066.9	13339.0	14325.0	14493.6	15265.0	15944.5	12526.7
42.5°	11167.8	11295.5	11872.8	12526.7	13104.0	14090.0	14769.4	14932.9	15464.2	16690.3	13492.3
45°	12169.1	12112.9	12751.5	13482.0	14120.6	14871.6	15295.6	15239.4	15581.7	17431.1	14100.2
47.5°	13456.5	13466.7	13890.7	14514.0	15178.1	15551.1	15883.2	15683.9	15827.0	18212.8	14912.5
50°	14335.2	14411.8	14754.1	15392.7	15724.8	16297.0	16721.0	16598.4	16552.4	18682.8	15423.4
52.5°	14560.0	14789.9	14973.8	15770.8	16547.3	17451.5	17993.1	18253.6	17436.2	18841.1	16072.2
55°	12863.9	13068.2	13717.0	14810.3	16858.9	19280.5	20026.4	20031.5	18590.8	19546.1	16526.9
57.5°	10283.9	9870.1	10268.6	11428.3	14253.5	19203.9	21017.5	20777.4	19168.1	19132.3	16133.5
60°	7111.4	7009.2	7034.8	7494.6	9865.0	15275.2	18728.7	19040.4	17650.8	16583.1	12771.9
62.5°	5635.0	5548.1	5435.7	5384.6	6125.4	9517.6	13211.3	13650.6	12342.8	10754.0	7571.2
65°	4414.0	4362.9	4378.2	4582.6	4577.5	5400.0	7223.8	7045.0	5640.1	4168.8	2380.7
67.5°	2978.4	3055.0	3116.3	3734.5	4051.3	3760.1	3489.3	3387.1	1834.0	771.4	526.2
70°	1675.7	1685.9	1752.3	2334.7	3075.5	2917.1	2406.2	2406.2	914.5	281.0	301.4
72.5°	914.5	883.8	822.5	1006.4	1369.1	1389.6	1072.8	934.9	270.8	183.9	168.6
75°	444.5	439.4	378.0	311.6	296.3	245.2	189.0	173.7	122.6	117.5	102.2
77.5°	92.0	86.8	46.0	46.0	51.1	56.2	71.5	71.5	86.8	86.8	71.5
80°	0.0	0.0	5.1	20.4	35.8	51.1	61.3	61.3	71.5	71.5	56.2
82.5°	0.0	0.0	5.1	15.3	30.7	46.0	56.2	61.3	71.5	76.6	61.3
85°	0.0	0.0	0.0	10.2	25.5	35.8	30.7	30.7	25.5	20.4	10.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12102.7	12102.7	12102.7	12102.7	12102.7	12102.7	12102.7	12102.7	12102.7	12102.7	12102.7
2.5°	11923.9	11913.6	11678.6	11545.8	11305.7	11096.2	10927.7	10805.0	10805.0	10728.4	10656.9
5°	11586.7	11499.8	10999.2	10677.3	10222.6	9885.5	9655.6	9476.8	9195.8	9272.4	8971.0
7.5°	11167.8	10948.1	10283.9	9793.5	9165.1	8684.9	8194.5	7760.2	7341.3	7152.3	7254.4
10°	10718.2	10335.0	9441.0	8664.5	7882.8	7004.1	6431.9	5737.1	5308.0	5282.5	5170.1
12.5°	10243.1	9808.8	8720.7	7647.8	6621.0	5563.4	4689.8	4041.0	3749.8	3428.0	3489.3
15°	9885.5	9241.8	7918.6	6626.1	5262.0	4194.3	3315.6	2814.9	2539.1	2462.4	2436.9
17.5°	9497.2	8807.5	7101.2	5537.9	4127.9	3019.3	2385.8	2145.7	2038.4	2038.4	2023.1
20°	9093.6	8317.1	6288.9	4526.4	3095.9	2253.0	1910.7	1834.0	1828.9	1823.8	1823.8
22.5°	8827.9	7755.1	5553.2	3596.6	2334.7	1803.4	1660.3	1629.7	1650.1	1711.4	1711.4
25°	8547.0	7213.6	4740.9	2774.1	1808.5	1548.0	1466.2	1486.7	1537.7	1593.9	1573.5
27.5°	8260.9	6861.1	3974.6	2176.3	1481.5	1353.8	1323.2	1369.1	1425.3	1476.4	1461.1
30°	8194.5	6483.0	3249.2	1650.1	1272.1	1180.1	1200.6	1241.4	1297.6	1318.1	1338.5
32.5°	8296.6	6186.7	2661.7	1353.8	1108.6	1083.1	1083.1	1103.5	1139.3	1185.2	1169.9
35°	8587.8	6018.1	2104.8	1175.0	1016.6	991.1	986.0	1006.4	1026.9	1042.2	1026.9
37.5°	9032.3	5885.3	1721.7	1042.2	955.3	914.5	904.3	899.1	919.6	924.7	934.9
40°	9599.4	5956.8	1461.1	960.4	894.0	848.1	817.4	817.4	817.4	832.7	837.8
42.5°	10212.4	6053.9	1261.9	914.5	837.8	781.6	751.0	740.8	751.0	771.4	766.3
45°	10856.1	6242.9	1134.1	842.9	786.7	715.2	674.4	664.1	689.7	730.6	725.4
47.5°	11459.0	6513.7	1037.1	797.0	735.7	669.2	618.2	607.9	653.9	710.1	715.2
50°	12061.8	6983.7	1001.3	761.2	699.9	623.3	577.3	567.1	618.2	689.7	705.0
52.5°	12756.6	7489.5	975.8	715.2	659.0	587.5	536.4	526.2	582.4	674.4	679.5
55°	13211.3	7918.6	955.3	633.5	582.4	531.3	490.4	485.3	546.6	628.4	648.8
57.5°	12680.0	7320.9	883.8	551.7	495.6	470.0	434.2	434.2	485.3	562.0	577.3
60°	9614.7	4817.6	628.4	444.5	418.9	403.6	388.3	388.3	429.1	485.3	490.4
62.5°	5629.9	2595.3	403.6	357.6	357.6	342.3	316.7	316.7	357.6	388.3	393.4
65°	1670.6	832.7	327.0	306.5	301.4	275.9	250.3	245.2	275.9	291.2	286.1
67.5°	480.2	383.2	270.8	255.4	250.3	209.5	194.1	189.0	194.1	183.9	178.8
70°	286.1	260.5	209.5	214.6	189.0	153.3	137.9	132.8	122.6	107.3	97.1
72.5°	158.4	158.4	153.3	163.5	132.8	102.2	86.8	71.5	56.2	46.0	40.9
75°	97.1	102.2	107.3	112.4	86.8	66.4	56.2	35.8	20.4	10.2	10.2
77.5°	66.4	71.5	76.6	81.7	71.5	61.3	46.0	25.5	5.1	0.0	0.0
80°	51.1	56.2	66.4	71.5	76.6	81.7	61.3	25.5	5.1	0.0	0.0
82.5°	56.2	61.3	76.6	71.5	71.5	71.5	56.2	25.5	5.1	0.0	0.0
85°	10.2	15.3	25.5	25.5	35.8	46.0	35.8	10.2	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)