

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: P529605

Luminaire Tested: **GALN-SA4D-735-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529605
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4D-735-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21266 lumens
Efficiency: N/A
Efficacy: 86.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

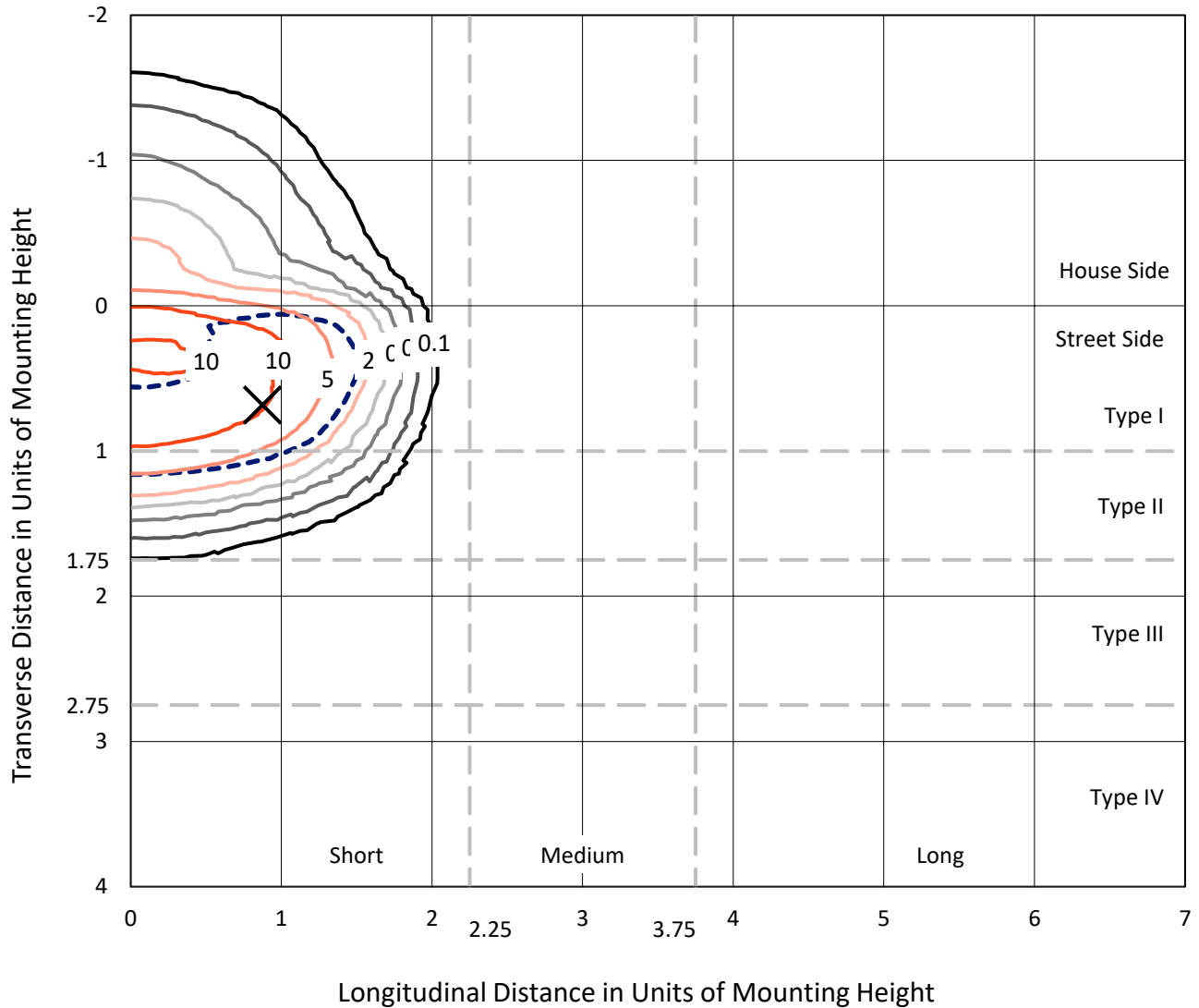
Input Watts (W): 245
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

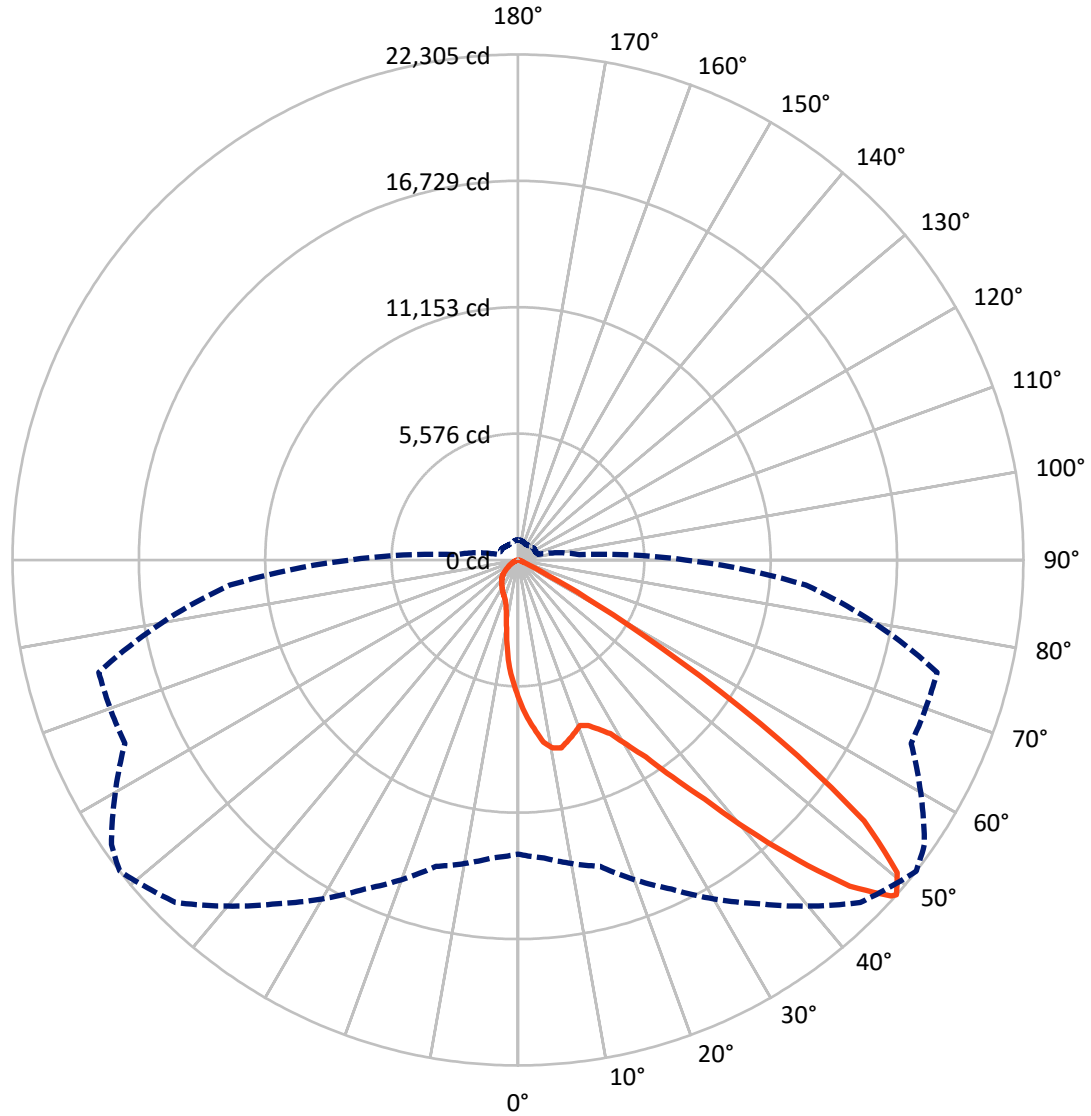
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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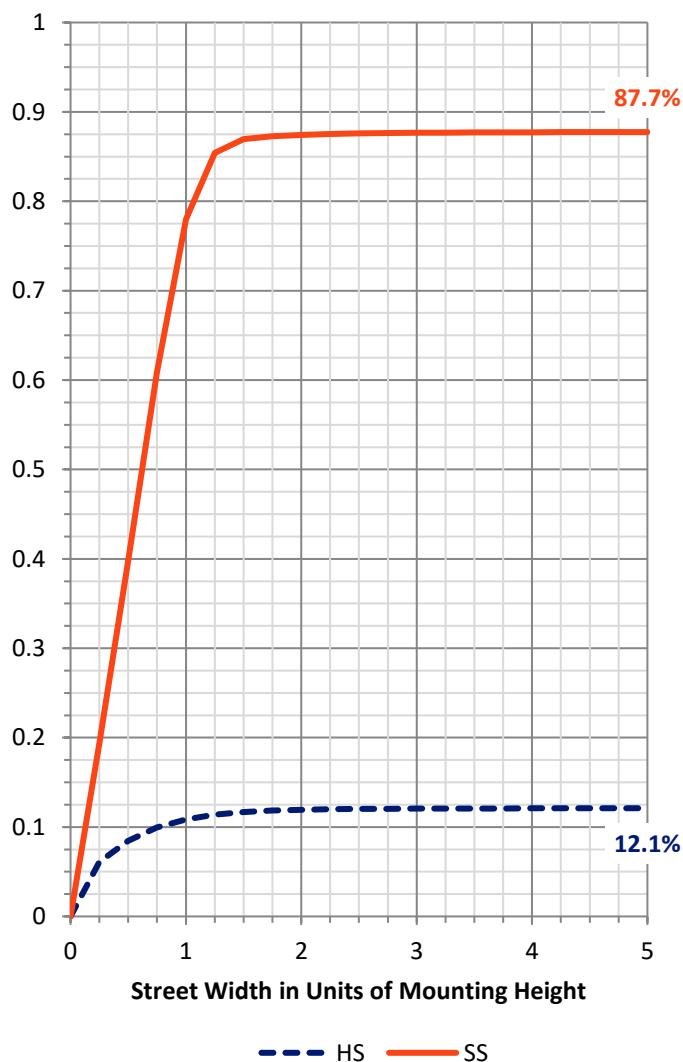
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2589.3	0.0	2589.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	18676.7	0.0	18676.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	21266.0	0.0	21266.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	562.1	2.6
10°-20°	1469.0	6.9
20°-30°	2508.1	11.8
30°-40°	4618.7	21.7
40°-50°	7172.9	33.7
50°-60°	4316.9	20.3
60°-70°	499.3	2.3
70°-80°	96.6	0.5
80°-90°	22.4	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°	21266.0	100.0
0°-180°	21266.0	100.0

Coefficient of Utilization



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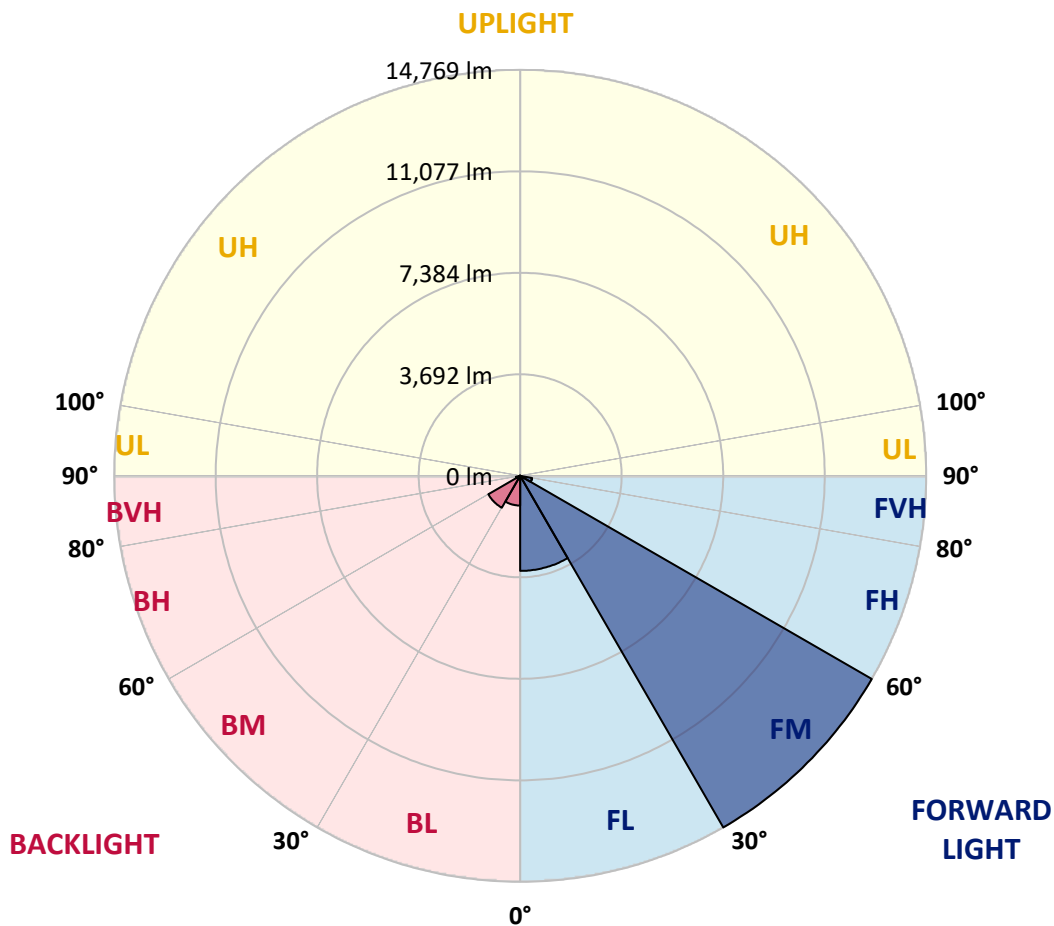
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3457.6	16.3			
FM (30°-60°)	14768.8	69.4			
FH (60°-80°)	439.7	2.1			G0/660
FVH (80°-90°)	10.6	0.1			G1/100
BL (0°-30°)	1081.6	5.1	B3/2500		
BM (30°-60°)	1339.7	6.3	B2/2500		
BH (60°-80°)	156.3	0.7	B1/500		G1/500
BVH (80°-90°)	11.7	0.1			G1/100
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°	52°	55°	65°	75°	85°
0°	6141.3	6141.3	6141.3	6141.3	6141.3	6141.3	6141.3	6141.3	6141.3	6141.3	6141.3
2.5°	7443.3	7272.8	7288.3	7176.7	7111.6	7006.2	6863.6	6835.7	6680.7	6469.9	6256.0
5°	8112.9	8072.6	8125.3	7964.1	7970.3	7796.7	7461.9	7468.1	7111.6	6767.5	6435.8
7.5°	8156.3	8063.3	8116.0	8258.6	8342.3	8311.3	8122.2	7957.9	7620.0	7114.7	6631.1
10°	7303.8	7480.5	7536.3	7771.9	8106.7	8460.1	8438.4	8447.7	8165.6	7505.3	6798.5
12.5°	6792.3	6674.5	6863.6	7006.2	7511.5	8196.6	8509.7	8577.9	8599.6	7883.5	6965.9
15°	6559.8	6559.8	6590.8	6631.1	6996.9	7629.3	8267.9	8466.3	8934.4	8379.5	7229.4
17.5°	6705.5	6699.3	6742.7	6659.0	6795.4	7282.1	8044.7	8271.0	9309.6	8866.2	7437.1
20°	7148.8	7170.5	7142.6	6900.8	6910.1	7275.9	7796.7	8153.2	9563.8	9287.9	7713.0
22.5°	7765.7	7778.1	7620.0	7356.5	7279.0	7458.8	7939.3	8212.1	9768.4	9793.2	7796.7
25°	8478.7	8429.1	8398.1	8026.1	7790.5	7945.5	8261.7	8419.8	9895.5	10227.2	8035.4
27.5°	9467.7	9368.5	9179.4	8847.6	8674.0	8453.9	8680.2	8940.6	10258.2	10834.8	8295.8
30°	10927.8	10841.0	10472.1	10044.3	9588.6	9371.6	9442.9	9585.5	10912.3	11538.5	8639.9
32.5°	13125.8	12942.9	12409.6	11594.3	10974.3	10376.0	10357.4	10509.3	11498.2	12511.9	9049.1
35°	15546.9	15491.1	14706.8	13866.7	12666.9	11743.1	11758.6	11839.2	12620.4	13789.2	9585.5
37.5°	17155.9	17462.8	16963.7	16061.5	15054.0	13733.4	13398.6	13426.5	14161.2	15302.0	10552.7
40°	18399.0	18138.6	18197.5	17986.7	17298.5	16399.4	15658.5	15512.8	15943.7	16976.1	11513.7
42.5°	17856.5	17868.9	18231.6	18730.7	18901.2	18836.1	18079.7	17803.8	17469.0	18346.3	12428.2
45°	16325.0	16644.4	17115.6	18436.2	19595.6	20683.8	20535.0	20076.1	18523.0	19431.3	12955.3
47.5°	13882.2	13869.8	14641.7	16359.1	18935.3	21483.6	22159.4	21837.0	19270.1	19310.4	12846.8
48°	12980.1	13203.3	14000.0	16021.2	18516.8	21365.8	22305.1	21899.0	19143.0	19149.2	12753.7
50°	9594.8	9554.5	10546.5	13026.6	16539.0	20076.1	21691.3	22007.5	19139.9	18333.9	12102.7
52.5°	5068.6	5242.2	5964.6	8190.4	11693.5	16430.4	19133.7	19626.6	18464.1	17000.9	11166.5
55°	2154.6	1946.9	2501.8	3698.4	6578.4	10977.4	14037.2	15134.6	15612.0	15044.7	9768.4
57.5°	768.8	840.1	967.2	1391.9	2765.3	6008.0	8370.2	9222.8	10816.2	11039.4	6655.9
60°	492.9	502.2	542.5	638.6	1038.5	2315.8	3971.2	4650.1	5372.4	5546.1	3106.3
62.5°	381.3	384.4	403.0	418.5	492.9	899.0	1491.1	1767.0	1835.3	1577.9	815.3
65°	319.3	322.4	328.6	328.6	350.3	421.6	520.8	573.5	558.0	551.8	461.9
67.5°	244.9	251.1	263.5	263.5	275.9	257.3	288.3	306.9	347.2	421.6	393.7
70°	192.2	195.3	204.6	210.8	210.8	186.0	207.7	226.3	254.2	313.1	310.0
72.5°	148.8	155.0	161.2	161.2	151.9	127.1	148.8	164.3	182.9	217.0	210.8
75°	114.7	114.7	117.8	96.1	74.4	65.1	89.9	108.5	136.4	142.6	117.8
77.5°	31.0	34.1	31.0	27.9	31.0	46.5	58.9	68.2	86.8	86.8	77.5
80°	0.0	3.1	9.3	18.6	31.0	43.4	52.7	58.9	68.2	74.4	71.3
82.5°	0.0	3.1	9.3	18.6	27.9	34.1	46.5	49.6	55.8	65.1	65.1
85°	0.0	3.1	6.2	12.4	18.6	21.7	21.7	18.6	18.6	15.5	12.4
87.5°	0.0	0.0	3.1	6.2	6.2	9.3	9.3	9.3	9.3	9.3	9.3
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°	6141.3	6141.3	6141.3	6141.3	6141.3	6141.3	6141.3	6141.3	6141.3	6141.3	6141.3
2.5°	6172.3	6076.2	5930.5	5701.1	5480.9	5338.3	5201.9	5050.0	4966.3	4960.1	4913.6
5°	6246.7	6029.7	5682.5	5288.7	4867.1	4504.4	4138.6	3899.9	3686.0	3568.2	3546.5
7.5°	6287.0	6004.9	5443.7	4783.4	4064.2	3472.1	3062.9	2762.2	2644.4	2557.6	2554.5
10°	6370.7	5961.5	5087.2	4113.8	3224.1	2625.8	2343.7	2207.3	2142.2	2117.4	2080.2
12.5°	6432.7	5880.9	4721.4	3425.6	2548.3	2176.3	2052.3	2021.3	2024.4	2036.8	2021.3
15°	6519.5	5809.6	4228.5	2811.8	2139.1	1959.3	1959.3	1965.5	2008.9	2015.1	2012.0
17.5°	6513.3	5670.1	3720.1	2315.8	1891.1	1866.3	1875.6	1934.5	1962.4	1971.7	1950.0
20°	6587.7	5539.9	3196.2	1977.9	1751.5	1788.7	1850.8	1866.3	1900.4	1906.6	1881.8
22.5°	6566.0	5214.3	2709.5	1711.2	1646.1	1717.4	1779.4	1798.0	1788.7	1770.1	1767.0
25°	6525.7	4935.3	2263.1	1534.5	1568.6	1646.1	1705.0	1670.9	1652.3	1655.4	1658.5
27.5°	6454.4	4581.9	1894.2	1410.5	1463.2	1577.9	1574.8	1562.4	1581.0	1565.5	1581.0
30°	6442.0	4228.5	1590.3	1298.9	1385.7	1469.4	1475.6	1497.3	1519.0	1491.1	1519.0
32.5°	6460.6	3841.0	1373.3	1230.7	1339.2	1342.3	1410.5	1432.2	1416.7	1354.7	1360.9
35°	6603.2	3543.4	1215.2	1193.5	1264.8	1267.9	1333.0	1305.1	1236.9	1199.7	1221.4
37.5°	6903.9	3295.4	1140.8	1159.4	1165.6	1205.9	1209.0	1153.2	1159.4	1156.3	1168.7
40°	7288.3	3106.3	1088.1	1128.4	1122.2	1150.1	1038.5	1069.5	1097.4	1106.7	1112.9
42.5°	7551.8	2969.9	1054.0	1078.8	1066.4	1016.8	954.8	985.8	1007.5	1041.6	1047.8
45°	7669.6	2861.4	1013.7	992.0	992.0	902.1	877.3	883.5	933.1	970.3	964.1
47.5°	7477.4	2756.0	942.4	877.3	899.0	824.6	796.7	796.7	849.4	895.9	886.6
48°	7403.0	2712.6	945.5	852.5	868.0	812.2	784.3	778.1	837.0	880.4	880.4
50°	7034.1	2551.4	864.9	784.3	753.3	747.1	728.5	734.7	771.9	812.2	812.2
52.5°	6314.9	2204.2	731.6	672.7	616.9	654.1	663.4	651.0	669.6	706.8	703.7
55°	5270.1	1692.6	585.9	558.0	514.6	554.9	573.5	558.0	539.4	567.3	567.3
57.5°	3376.0	911.4	468.1	474.3	430.9	471.2	486.7	449.5	415.4	437.1	434.0
60°	1522.1	545.6	384.4	375.1	347.2	393.7	418.5	375.1	328.6	344.1	359.6
62.5°	570.4	387.5	291.4	285.2	279.0	322.4	334.8	300.7	254.2	263.5	266.6
65°	418.5	341.0	232.5	210.8	223.2	254.2	248.0	213.9	182.9	182.9	189.1
67.5°	356.5	297.6	189.1	164.3	164.3	167.4	155.0	136.4	127.1	133.3	139.5
70°	279.0	235.6	148.8	127.1	114.7	102.3	89.9	86.8	77.5	86.8	83.7
72.5°	179.8	158.1	114.7	96.1	86.8	71.3	58.9	55.8	46.5	43.4	43.4
75°	96.1	96.1	89.9	77.5	68.2	55.8	46.5	37.2	24.8	18.6	18.6
77.5°	68.2	74.4	80.6	74.4	62.0	46.5	37.2	24.8	12.4	6.2	6.2
80°	65.1	74.4	80.6	71.3	62.0	46.5	34.1	18.6	9.3	3.1	3.1
82.5°	58.9	68.2	74.4	65.1	55.8	40.3	31.0	18.6	9.3	3.1	3.1
85°	12.4	15.5	18.6	18.6	21.7	27.9	21.7	15.5	6.2	3.1	3.1
87.5°	9.3	9.3	9.3	9.3	9.3	9.3	6.2	6.2	3.1	3.1	3.1
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)