

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: P532309

Luminaire Tested: **GALN-SA7C-830-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532309
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-SA7C-830-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3000K, 1050mA 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: 29028 lumens
Efficiency: N/A
Efficacy: 77.0 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

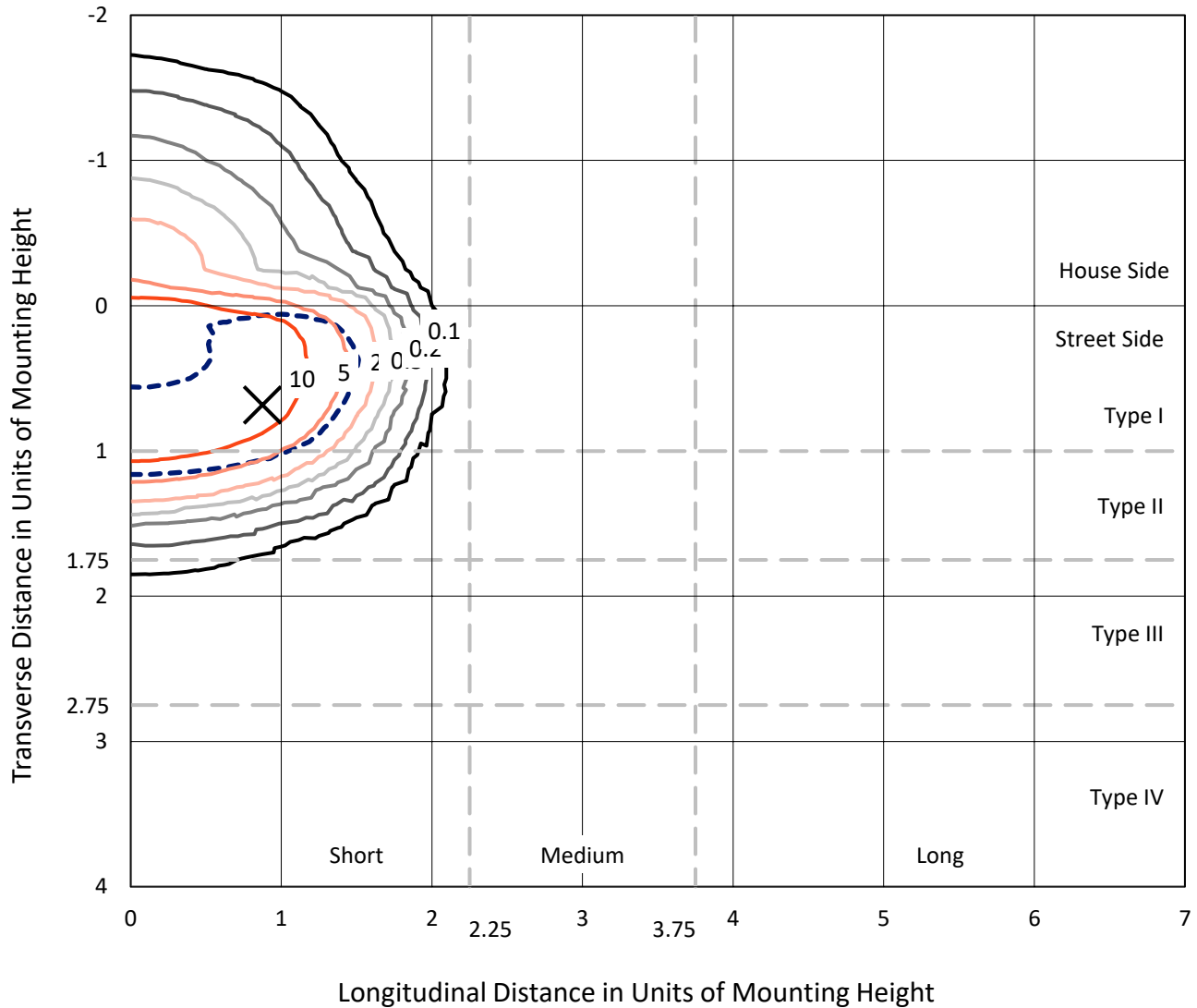
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

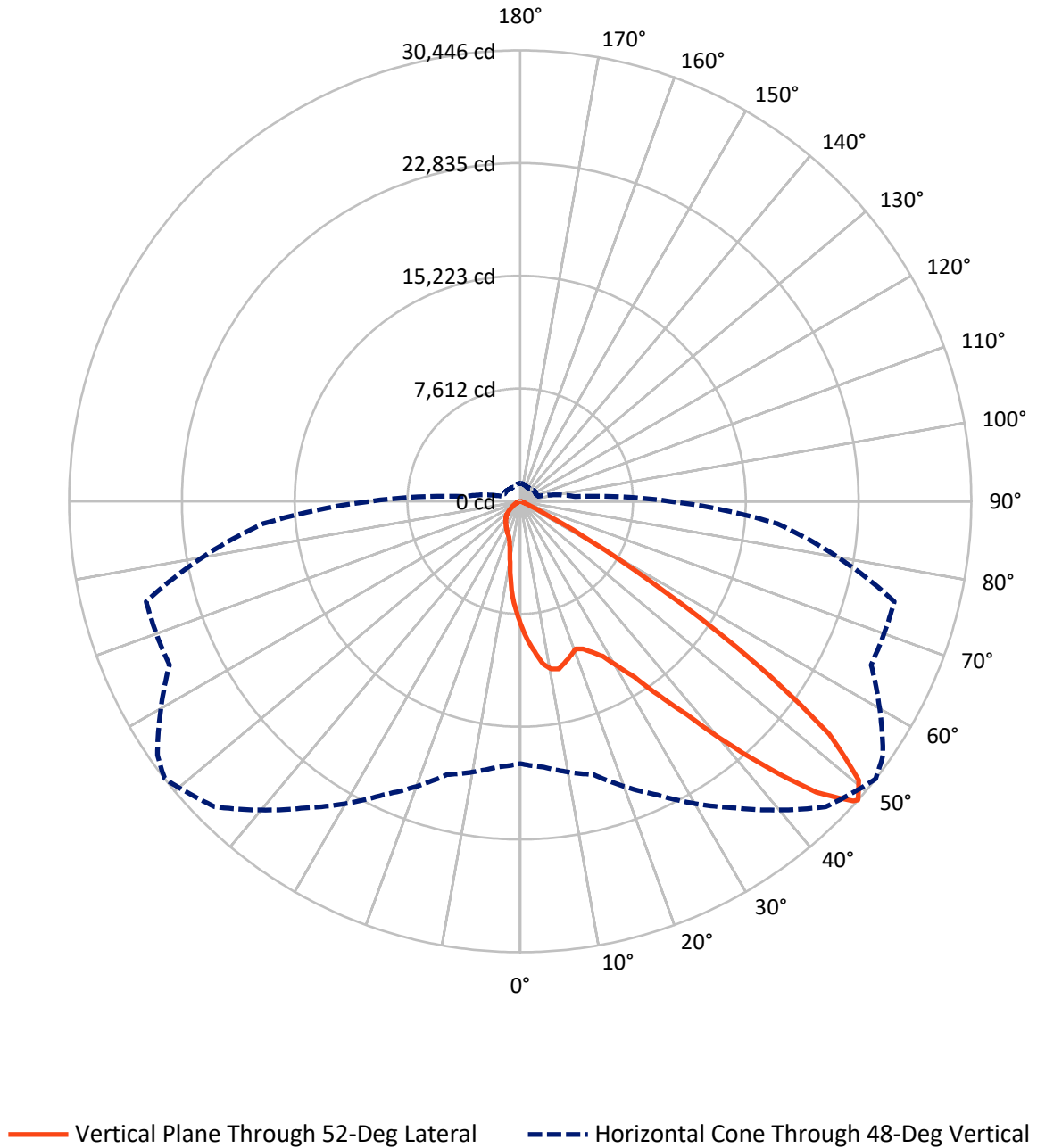
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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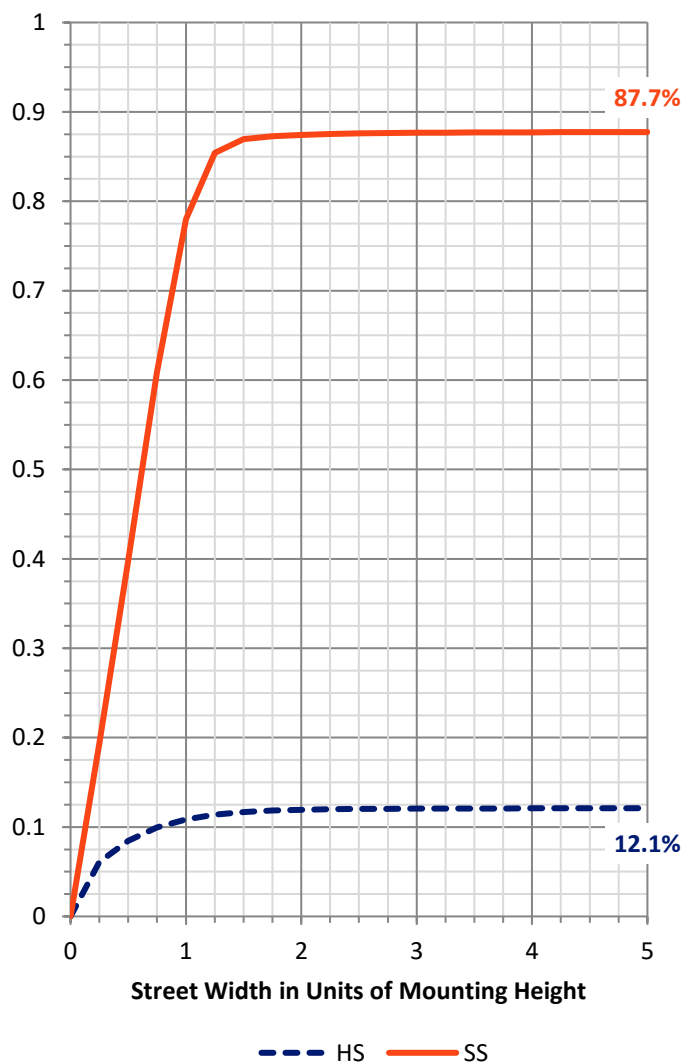
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3534.4	0.0	3534.4
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	25493.6	0.0	25493.6
	% Fixture	87.8	0.0	87.8
Total	Lumens	29028.0	0.0	29028.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	767.3	2.6
10°-20°	2005.1	6.9
20°-30°	3423.6	11.8
30°-40°	6304.6	21.7
40°-50°	9791.0	33.7
50°-60°	5892.5	20.3
60°-70°	681.5	2.3
70°-80°	131.9	0.5
80°-90°	30.5	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°	29028.0	100.0
0°-180°	29028.0	100.0

Coefficient of Utilization



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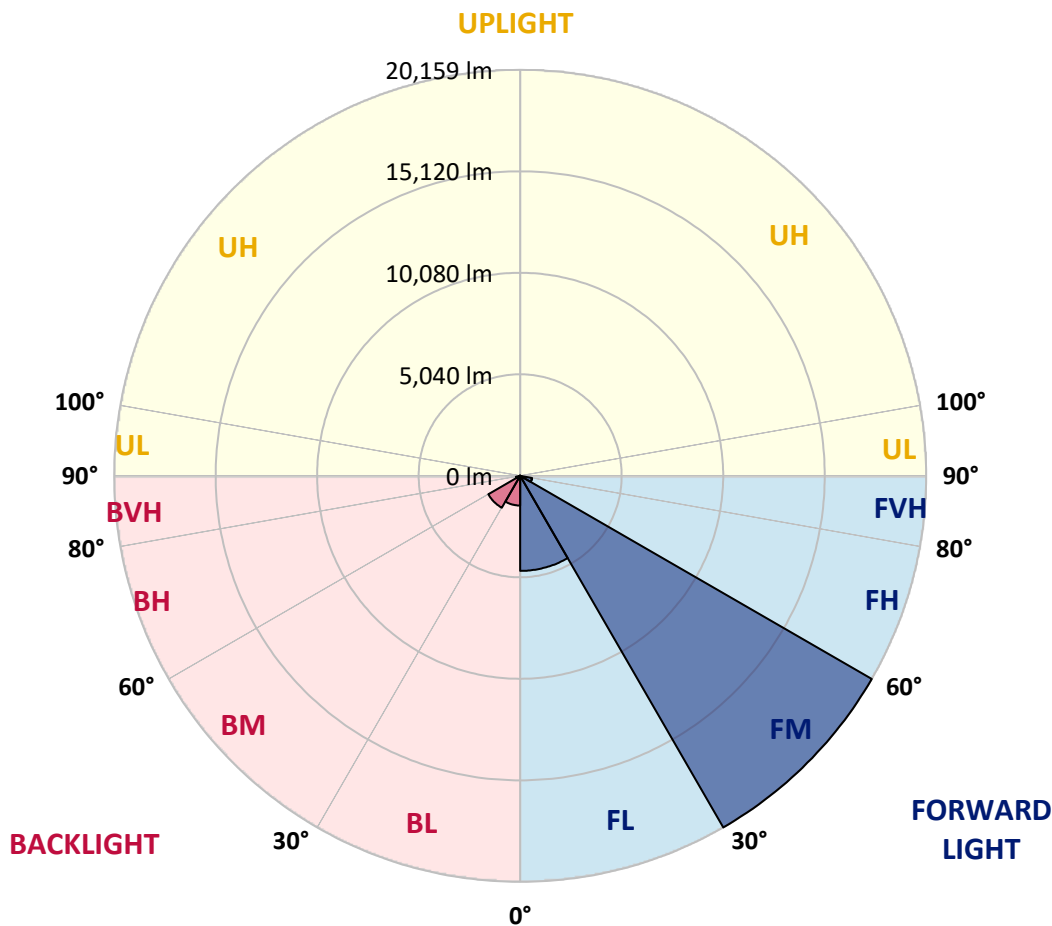
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4719.6	16.3			
FM (30°-60°)	20159.4	69.4			
FH (60°-80°)	600.1	2.1			G0/660
FVH (80°-90°)	14.5	0.1			G1/100
BL (0°-30°)	1476.4	5.1	B3/2500		
BM (30°-60°)	1828.7	6.3	B2/2500		
BH (60°-80°)	213.3	0.7	B1/500		G1/500
BVH (80°-90°)	16.0	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°	8382.8	8382.8	8382.8	8382.8	8382.8	8382.8	8382.8	8382.8	8382.8	8382.8	8382.8
2.5°	10160.1	9927.3	9948.5	9796.2	9707.3	9563.4	9368.8	9330.7	9119.1	8831.4	8539.4
5°	11074.1	11019.1	11091.0	10871.0	10879.4	10642.5	10185.5	10193.9	9707.3	9237.6	8784.8
7.5°	11133.3	11006.4	11078.3	11273.0	11387.2	11344.9	11086.8	10862.5	10401.3	9711.5	9051.4
10°	9969.7	10210.9	10287.0	10608.6	11065.6	11548.0	11518.4	11531.1	11146.0	10244.7	9279.9
12.5°	9271.4	9110.6	9368.8	9563.4	10253.2	11188.4	11615.7	11708.8	11738.5	10761.0	9508.4
15°	8954.1	8954.1	8996.4	9051.4	9550.7	10414.0	11285.7	11556.5	12195.5	11438.0	9868.1
17.5°	9153.0	9144.5	9203.7	9089.5	9275.7	9940.0	10981.0	11289.9	12707.5	12102.4	10151.6
20°	9758.1	9787.7	9749.6	9419.5	9432.2	9931.6	10642.5	11129.1	13054.5	12677.9	10528.2
22.5°	10600.2	10617.1	10401.3	10041.6	9935.8	10181.2	10837.1	11209.5	13333.8	13367.6	10642.5
25°	11573.4	11505.7	11463.4	10955.6	10634.0	10845.6	11277.2	11493.0	13507.3	13960.1	10968.3
27.5°	12923.3	12787.9	12529.8	12077.0	11840.0	11539.6	11848.5	12203.9	14002.4	14789.5	11323.8
30°	14916.4	14797.9	14294.4	13710.4	13088.3	12792.1	12889.5	13084.1	14895.2	15750.0	11793.5
32.5°	17916.6	17666.9	16939.1	15826.2	14979.9	14163.2	14137.8	14345.1	15695.0	17078.7	12352.0
35°	21221.5	21145.3	20074.7	18928.0	17290.3	16029.3	16050.5	16160.5	17226.9	18822.2	13084.1
37.5°	23417.7	23836.6	23155.3	21923.9	20548.7	18746.0	18289.0	18327.1	19330.0	20887.2	14404.4
40°	25114.6	24759.1	24839.5	24551.8	23612.3	22385.2	21373.8	21174.9	21763.1	23172.3	15716.2
42.5°	24374.0	24391.0	24886.1	25567.3	25800.1	25711.2	24678.7	24302.1	23845.1	25042.6	16964.5
45°	22283.6	22719.5	23362.7	25165.3	26748.0	28233.3	28030.1	27403.9	25283.8	26523.7	17683.9
47.5°	18949.1	18932.2	19985.9	22330.2	25846.6	29325.0	30247.5	29807.4	26303.6	26358.7	17535.8
48°	17717.7	18022.4	19109.9	21868.9	25275.4	29164.2	30446.4	29892.0	26130.1	26138.6	17408.8
50°	13096.8	13041.8	14395.9	17781.2	22575.6	27403.9	29608.5	30040.1	26125.9	25025.7	16520.2
52.5°	6918.7	7155.6	8141.6	11179.9	15961.6	22427.5	26117.4	26790.3	25203.4	23206.1	15242.2
55°	2941.0	2657.4	3414.9	5048.3	8979.5	14984.1	19160.7	20658.7	21310.3	20536.0	13333.8
57.5°	1049.4	1146.8	1320.3	1900.0	3774.6	8200.8	11425.3	12589.0	14764.1	15068.7	9085.3
60°	672.8	685.5	740.5	871.7	1417.6	3161.0	5420.7	6347.4	7333.4	7570.3	4240.1
62.5°	520.5	524.7	550.1	571.3	672.8	1227.2	2035.4	2412.0	2505.1	2153.9	1112.9
65°	435.9	440.1	448.5	448.5	478.2	575.5	710.9	782.8	761.7	753.2	630.5
67.5°	334.3	342.8	359.7	359.7	376.6	351.2	393.5	418.9	473.9	575.5	537.4
70°	262.4	266.6	279.3	287.7	287.7	253.9	283.5	308.9	347.0	427.4	423.2
72.5°	203.1	211.6	220.0	220.0	207.3	173.5	203.1	224.3	249.7	296.2	287.7
75°	156.6	156.6	160.8	131.2	101.6	88.9	122.7	148.1	186.2	194.7	160.8
77.5°	42.3	46.5	42.3	38.1	42.3	63.5	80.4	93.1	118.5	118.5	105.8
80°	0.0	4.2	12.7	25.4	42.3	59.2	71.9	80.4	93.1	101.6	97.3
82.5°	0.0	4.2	12.7	25.4	38.1	46.5	63.5	67.7	76.2	88.9	88.9
85°	0.0	4.2	8.5	16.9	25.4	29.6	29.6	25.4	25.4	21.2	16.9
87.5°	0.0	0.0	4.2	8.5	8.5	12.7	12.7	12.7	12.7	12.7	12.7
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°	8382.8	8382.8	8382.8	8382.8	8382.8	8382.8	8382.8	8382.8	8382.8	8382.8	8382.8
2.5°	8425.1	8293.9	8095.1	7781.9	7481.5	7286.8	7100.6	6893.3	6779.0	6770.6	6707.1
5°	8526.7	8230.5	7756.5	7219.1	6643.6	6148.5	5649.2	5323.4	5031.4	4870.6	4841.0
7.5°	8581.7	8196.6	7430.7	6529.4	5547.6	4739.4	4180.8	3770.4	3609.6	3491.1	3486.8
10°	8695.9	8137.4	6944.1	5615.3	4400.9	3584.2	3199.1	3012.9	2924.0	2890.2	2839.4
12.5°	8780.6	8027.3	6444.7	4675.9	3478.4	2970.6	2801.3	2759.0	2763.2	2780.2	2759.0
15°	8899.1	7930.0	5771.9	3838.1	2919.8	2674.4	2674.4	2682.8	2742.1	2750.5	2746.3
17.5°	8890.6	7739.6	5077.9	3161.0	2581.3	2547.4	2560.1	2640.5	2678.6	2691.3	2661.7
20°	8992.2	7561.9	4362.8	2699.8	2390.9	2441.6	2526.3	2547.4	2594.0	2602.4	2568.6
22.5°	8962.5	7117.6	3698.4	2335.8	2247.0	2344.3	2428.9	2454.3	2441.6	2416.2	2412.0
25°	8907.5	6736.7	3089.1	2094.6	2141.2	2247.0	2327.4	2280.8	2255.4	2259.7	2263.9
27.5°	8810.2	6254.3	2585.5	1925.4	1997.3	2153.9	2149.7	2132.7	2158.1	2137.0	2158.1
30°	8793.3	5771.9	2170.8	1773.0	1891.5	2005.8	2014.2	2043.9	2073.5	2035.4	2073.5
32.5°	8818.7	5243.0	1874.6	1679.9	1828.1	1832.3	1925.4	1955.0	1933.8	1849.2	1857.7
35°	9013.3	4836.7	1658.8	1629.2	1726.5	1730.7	1819.6	1781.5	1688.4	1637.6	1667.3
37.5°	9423.8	4498.2	1557.2	1582.6	1591.1	1646.1	1650.3	1574.2	1582.6	1578.4	1595.3
40°	9948.5	4240.1	1485.3	1540.3	1531.8	1569.9	1417.6	1459.9	1498.0	1510.7	1519.1
42.5°	10308.2	4053.9	1438.7	1472.6	1455.7	1388.0	1303.3	1345.6	1375.3	1421.8	1430.3
45°	10469.0	3905.8	1383.7	1354.1	1354.1	1231.4	1197.5	1206.0	1273.7	1324.5	1316.0
47.5°	10206.6	3761.9	1286.4	1197.5	1227.2	1125.6	1087.5	1087.5	1159.5	1222.9	1210.2
48°	10105.1	3702.7	1290.6	1163.7	1184.8	1108.7	1070.6	1062.1	1142.5	1201.8	1201.8
50°	9601.5	3482.6	1180.6	1070.6	1028.3	1019.8	994.4	1002.9	1053.7	1108.7	1108.7
52.5°	8619.8	3008.7	998.7	918.3	842.1	892.9	905.6	888.6	914.0	964.8	960.6
55°	7193.7	2310.5	799.8	761.7	702.4	757.5	782.8	761.7	736.3	774.4	774.4
57.5°	4608.2	1244.1	639.0	647.4	588.2	643.2	664.4	613.6	567.0	596.7	592.4
60°	2077.7	744.8	524.7	512.0	473.9	537.4	571.3	512.0	448.5	469.7	490.9
62.5°	778.6	529.0	397.8	389.3	380.8	440.1	457.0	410.5	347.0	359.7	363.9
65°	571.3	465.5	317.4	287.7	304.7	347.0	338.5	292.0	249.7	249.7	258.1
67.5°	486.6	406.2	258.1	224.3	224.3	228.5	211.6	186.2	173.5	182.0	190.4
70°	380.8	321.6	203.1	173.5	156.6	139.6	122.7	118.5	105.8	118.5	114.3
72.5°	245.4	215.8	156.6	131.2	118.5	97.3	80.4	76.2	63.5	59.2	59.2
75°	131.2	131.2	122.7	105.8	93.1	76.2	63.5	50.8	33.9	25.4	25.4
77.5°	93.1	101.6	110.0	101.6	84.6	63.5	50.8	33.9	16.9	8.5	8.5
80°	88.9	101.6	110.0	97.3	84.6	63.5	46.5	25.4	12.7	4.2	4.2
82.5°	80.4	93.1	101.6	88.9	76.2	55.0	42.3	25.4	12.7	4.2	4.2
85°	16.9	21.2	25.4	25.4	29.6	38.1	29.6	21.2	8.5	4.2	4.2
87.5°	12.7	12.7	12.7	12.7	12.7	12.7	8.5	8.5	4.2	4.2	4.2
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)