

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: P647154

Luminaire Tested: **GALN-SA9C-835-U-AFL-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647154
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-835-U-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40886.7 lumens
Efficiency: N/A
Efficacy: 85.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G3

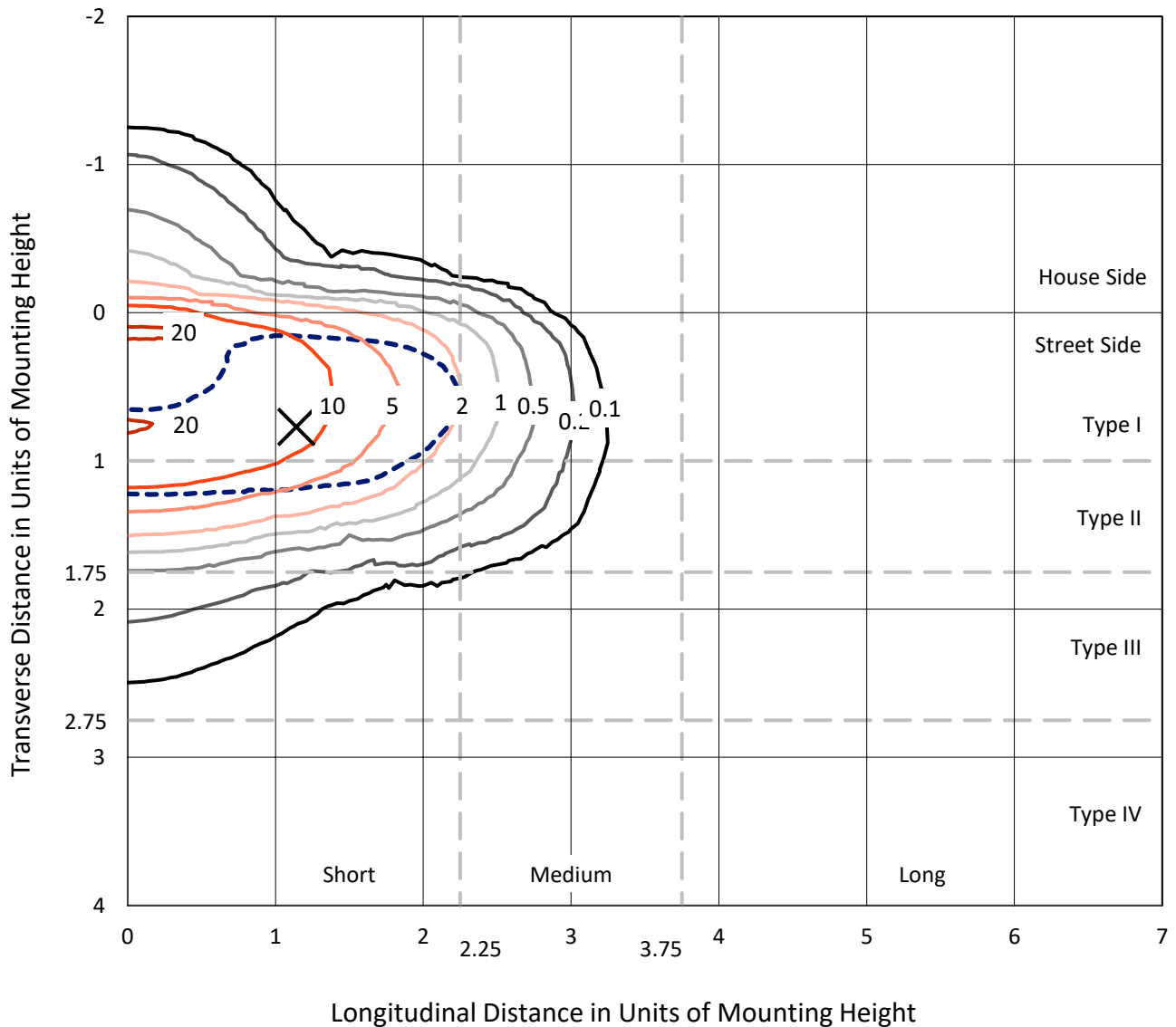
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

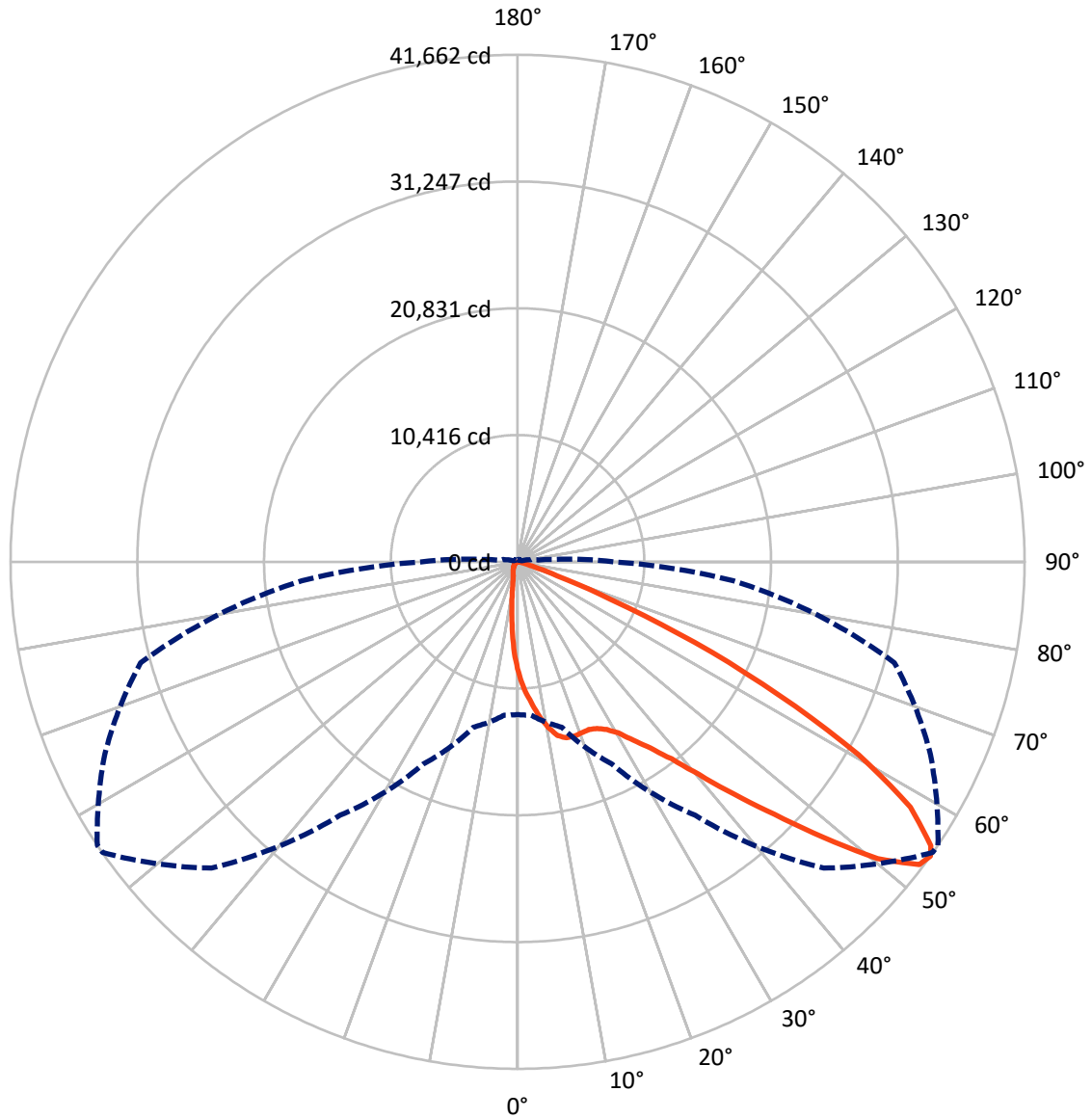
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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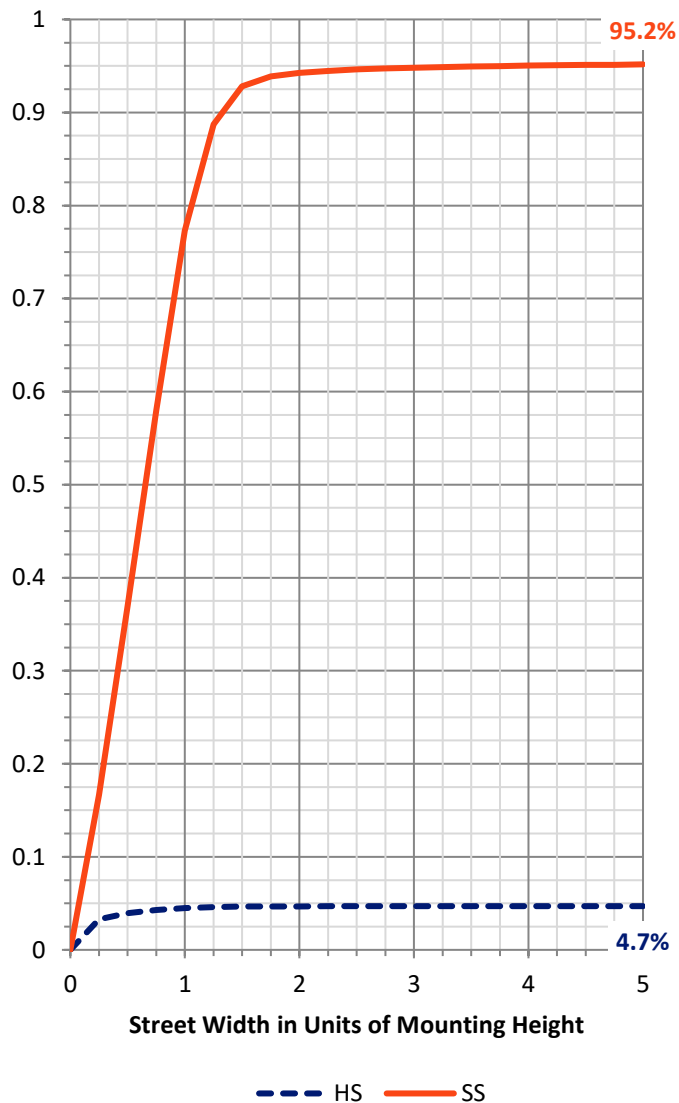
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1933.4	0.0	1933.4
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	38953.3	0.0	38953.3
	% Fixture	95.3	0.0	95.3
Total	Lumens	40886.7	0.0	40886.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	802.7	2.0
10°-20°	2170.0	5.3
20°-30°	3758.2	9.2
30°-40°	6487.3	15.9
40°-50°	11041.6	27.0
50°-60°	10927.0	26.7
60°-70°	4987.3	12.2
70°-80°	640.5	1.6
80°-90°	72.2	0.2
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°	40886.7	100.0
0°-180°	40886.7	100.0

Coefficient of Utilization



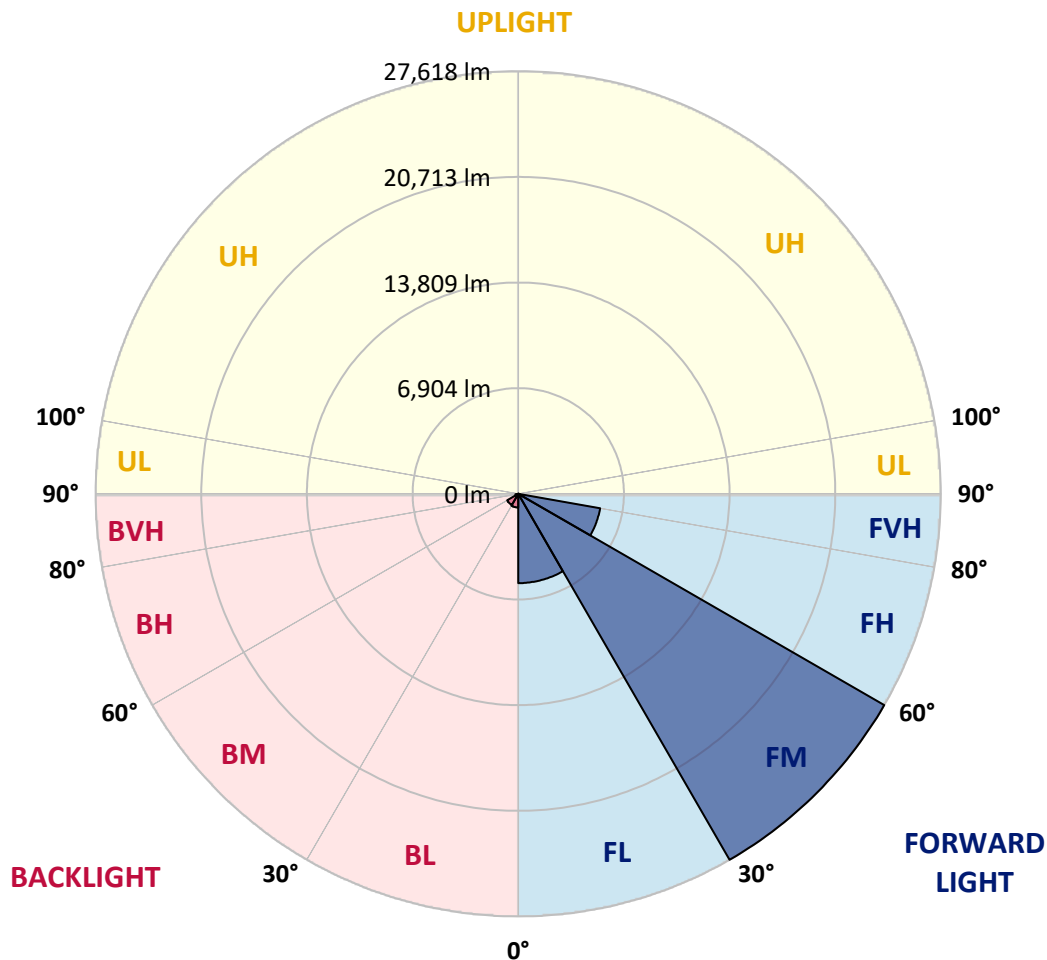
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5836.7	14.3			
FM (30°-60°)	27617.9	67.5			
FH (60°-80°)	5434.2	13.3			G3/7500
FVH (80°-90°)	64.4	0.2			G1/100
BL (0°-30°)	894.2	2.2	B2/1000		
BM (30°-60°)	837.9	2.0	B1/1000		
BH (60°-80°)	193.6	0.5	B1/500		G1/500
BVH (80°-90°)	7.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	9083.8	9083.8	9083.8	9083.8	9083.8	9083.8	9083.8	9083.8	9083.8	9083.8	9083.8
2.5°	11544.5	11464.5	11354.1	11268.6	11067.2	10777.6	10471.4	10471.4	10176.3	9765.2	9345.9
5°	13315.5	13263.0	13155.4	12934.8	12708.6	12303.0	11687.9	11580.3	11053.5	10308.7	9525.2
7.5°	14035.4	14060.3	14065.7	14007.8	13900.2	13500.3	12890.6	12816.1	11974.8	10976.2	9759.7
10°	13345.8	13467.1	13585.8	13825.7	14165.1	14261.6	13916.8	13839.5	13012.0	11652.1	10013.5
12.5°	12319.6	12385.8	12452.0	12829.9	13511.3	14291.9	14653.3	14650.6	13949.9	12325.1	10336.2
15°	11842.4	11900.3	11905.8	12074.1	12664.4	13800.9	14967.8	15009.2	14865.7	13155.4	10683.8
17.5°	11941.7	11988.6	11950.0	11991.3	12300.3	13260.3	14932.0	15069.9	15607.8	13952.7	10998.3
20°	12589.9	12681.0	12532.0	12416.2	12509.9	13116.8	14810.5	15003.7	16131.9	14730.6	11285.1
22.5°	13754.0	13803.7	13616.1	13298.9	13133.3	13417.5	14777.5	14967.8	16578.8	15367.8	11450.7
25°	15047.8	15031.3	14824.4	14468.5	14120.9	14024.4	14995.4	15166.4	16948.4	15941.6	11500.3
27.5°	16341.5	16391.2	16043.6	15602.3	15185.7	14934.7	15483.7	15610.5	17365.0	16595.3	11561.0
30°	17845.0	17764.9	17422.9	16918.0	16440.9	16090.5	16269.8	16305.7	17938.8	17461.5	11721.0
32.5°	19800.7	19580.1	19196.7	18313.9	17971.8	17378.8	17422.9	17467.0	18636.7	18319.4	11914.1
35°	22454.5	22443.4	21693.1	20504.2	19671.1	18934.6	18741.5	18777.4	19693.2	19593.9	12341.6
37.5°	25648.8	25693.0	24837.9	23640.6	22106.9	20937.3	20540.0	20545.5	21298.6	21353.8	12992.7
40°	28250.2	28366.0	27855.7	27047.4	25533.0	23704.1	23036.5	22975.8	23555.1	23486.2	13922.3
42.5°	29370.1	29477.7	29668.0	29949.4	29116.3	27607.4	26032.2	26115.0	26291.6	25808.9	14965.0
45°	28821.1	28992.1	29739.7	31477.6	32261.0	31753.5	29874.9	29585.3	28837.7	28332.9	16013.3
47.5°	26534.3	26950.9	28200.4	31094.2	33836.2	35552.0	34211.3	33827.9	31386.6	30175.6	16680.9
50°	22774.4	22799.2	24539.9	28239.1	33019.7	37949.1	38638.8	38351.9	33761.7	31210.1	17017.4
52.5°	16509.8	17053.3	18647.7	22931.7	29483.2	37585.0	41460.7	41342.2	36211.2	31739.7	17502.9
54°	12551.3	12656.2	14074.0	18324.9	25419.9	35585.1	41634.5	41662.1	37427.8	32059.7	17789.8
55°	10289.3	10038.3	11527.9	15610.5	22647.6	33816.8	41066.3	41198.7	37973.9	32225.1	18002.2
57.5°	4877.1	4879.8	6019.2	8234.2	14184.4	26258.5	37593.3	38062.3	38034.6	32509.3	18656.0
60°	2468.9	2485.5	2736.4	3801.2	7006.7	17456.0	31083.1	32200.3	35107.8	32550.7	18871.1
62.5°	1726.8	1707.6	1666.1	1828.9	2948.9	8871.5	23141.3	24112.3	29828.0	30975.6	18187.0
65°	1478.5	1437.2	1321.3	1296.5	1489.6	3533.7	14413.3	15996.8	22774.4	26821.2	16239.5
67.5°	1263.4	1246.8	1142.0	1078.6	1053.8	1539.3	7437.0	8270.0	15566.4	19279.4	12300.3
70°	1073.1	1064.8	1001.4	921.4	852.4	921.4	2758.5	3417.8	8675.6	10380.4	5804.0
72.5°	871.7	879.9	891.0	789.0	717.2	653.8	1177.9	1371.0	3630.2	3710.2	2030.3
75°	764.1	755.8	755.8	686.8	598.6	485.5	648.2	697.9	1111.7	1031.7	471.7
77.5°	537.9	518.6	606.9	565.5	499.3	344.8	369.7	391.7	460.6	394.5	220.6
80°	372.4	372.4	388.9	507.5	449.7	251.0	226.2	242.7	273.1	234.5	126.9
82.5°	209.7	215.2	253.8	270.4	262.1	168.3	148.9	151.7	182.0	160.0	80.0
85°	24.8	41.3	146.2	143.4	107.6	74.5	82.8	85.5	113.1	99.3	46.9
87.5°	2.7	5.5	30.4	38.6	27.6	30.4	30.4	30.4	38.6	44.2	33.1
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°	9083.8	9083.8	9083.8	9083.8	9083.8	9083.8	9083.8	9083.8	9083.8	9083.8	9083.8
2.5°	9119.7	8910.1	8410.8	7831.5	7461.8	6860.5	6352.9	5986.0	5895.0	5718.4	5770.9
5°	9108.6	8672.8	7654.9	6579.1	5431.5	4576.4	3939.2	3437.1	3216.5	3070.2	2968.2
7.5°	9114.2	8432.8	6799.8	5086.8	3715.7	2877.1	2286.8	1980.6	1776.5	1691.0	1702.0
10°	9130.7	8162.5	5806.7	3768.2	2507.5	1859.2	1497.9	1351.7	1282.7	1271.7	1268.9
12.5°	9169.4	7867.3	4857.8	2797.2	1754.4	1351.7	1213.7	1164.1	1142.0	1142.0	1133.8
15°	9210.7	7541.9	4068.9	2080.0	1351.7	1161.3	1097.9	1073.1	1059.2	1059.2	1056.5
17.5°	9210.7	7166.6	3332.3	1613.8	1164.1	1067.5	1017.9	984.8	973.7	973.7	971.0
20°	9152.8	6730.8	2678.6	1299.2	1056.5	979.3	929.7	893.8	879.9	874.5	871.7
22.5°	8951.4	6148.7	2132.3	1117.2	968.3	902.0	838.6	797.3	786.2	780.7	783.4
25°	8592.8	5492.3	1688.2	982.0	888.2	808.2	753.1	722.7	711.7	711.7	714.5
27.5°	8223.2	4805.3	1337.9	879.9	791.7	720.0	675.8	656.5	653.8	662.0	664.8
30°	7881.1	4115.8	1084.1	797.3	706.2	645.5	615.1	609.6	609.6	612.4	615.1
32.5°	7500.4	3511.6	907.6	725.5	637.2	584.8	568.2	568.2	573.8	573.8	579.3
35°	7260.4	2993.0	797.3	656.5	584.8	540.7	529.6	532.4	540.7	551.7	557.3
37.5°	7130.8	2579.2	725.5	601.3	535.2	504.8	493.8	499.3	518.6	537.9	540.7
40°	7141.8	2267.5	667.6	554.4	496.5	463.5	455.2	471.7	491.0	510.4	513.1
42.5°	7263.2	2035.8	612.4	499.3	463.5	416.6	413.8	430.3	438.6	457.9	460.6
45°	7406.6	1867.5	554.4	441.4	402.8	361.4	364.1	378.0	388.9	419.3	424.8
47.5°	7450.8	1751.6	488.3	375.1	331.1	317.2	320.0	328.2	350.3	378.0	380.7
50°	7500.4	1679.9	424.8	317.2	281.3	278.6	281.3	286.9	300.7	311.7	309.0
52.5°	7712.9	1677.2	372.4	275.9	240.0	245.5	248.3	245.5	234.5	217.9	212.4
54°	7911.5	1685.5	347.6	256.5	220.6	228.9	226.2	212.4	184.8	168.3	160.0
55°	8071.5	1693.7	333.8	242.7	209.7	212.4	215.2	187.6	151.7	135.1	129.7
57.5°	8385.9	1674.4	300.7	212.4	184.8	173.8	171.0	124.1	82.8	71.7	66.2
60°	8228.7	1511.7	273.1	182.0	157.2	140.7	115.9	69.0	41.3	30.4	30.4
62.5°	7610.8	1282.7	242.7	148.9	129.7	107.6	60.7	38.6	19.3	11.0	8.3
65°	6808.0	1078.6	217.9	118.6	102.1	69.0	33.1	24.8	8.3	0.0	0.0
67.5°	5061.9	800.0	184.8	93.8	77.2	44.2	22.1	13.8	2.7	0.0	0.0
70°	2344.8	488.3	157.2	71.7	55.2	33.1	16.5	8.3	0.0	0.0	0.0
72.5°	673.1	306.2	129.7	52.4	38.6	27.6	13.8	5.5	2.7	0.0	0.0
75°	234.5	245.5	96.5	38.6	30.4	19.3	11.0	5.5	2.7	0.0	0.0
77.5°	140.7	198.6	60.7	33.1	24.8	16.5	11.0	5.5	2.7	2.7	0.0
80°	80.0	132.4	38.6	27.6	22.1	13.8	8.3	5.5	2.7	2.7	0.0
82.5°	44.2	63.4	30.4	24.8	19.3	13.8	8.3	5.5	2.7	2.7	2.7
85°	35.9	33.1	24.8	22.1	16.5	11.0	8.3	2.7	0.0	0.0	0.0
87.5°	27.6	22.1	22.1	22.1	16.5	11.0	8.3	2.7	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)