

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: P647043

Luminaire Tested: **GALN-SA7C-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647043
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-835-U-AFL-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34598.4 lumens
Efficiency: N/A
Efficacy: 91.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

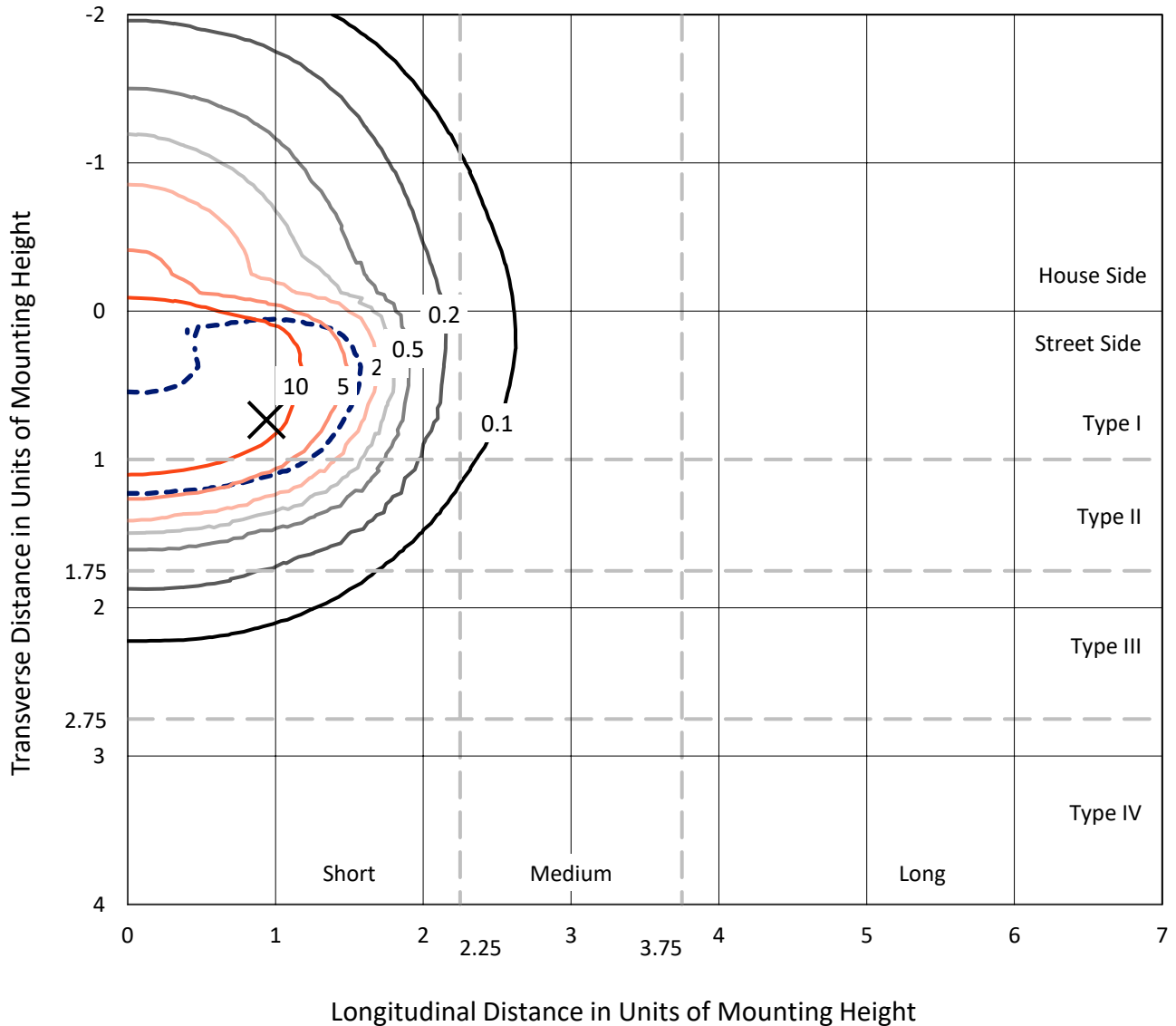
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

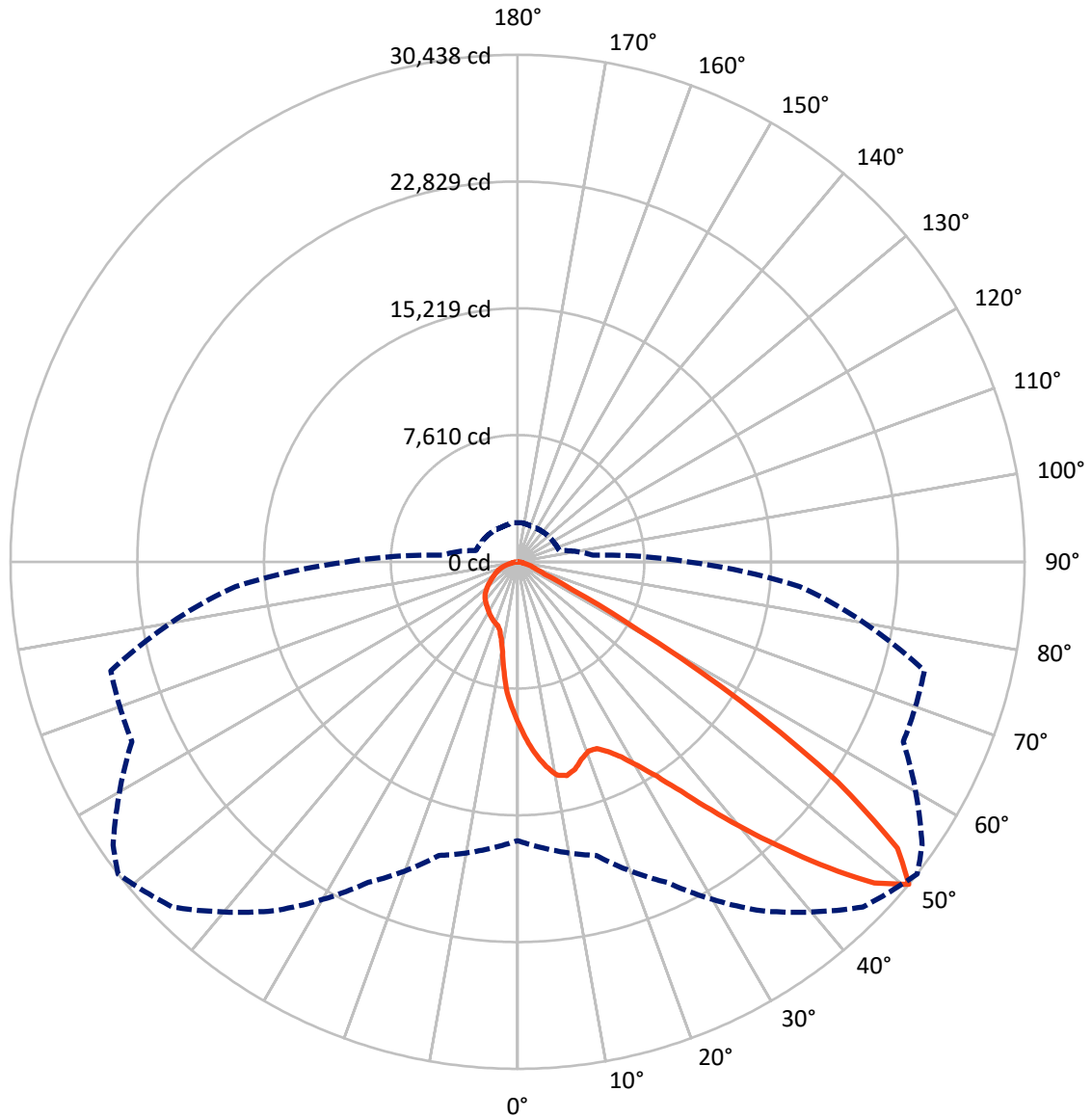
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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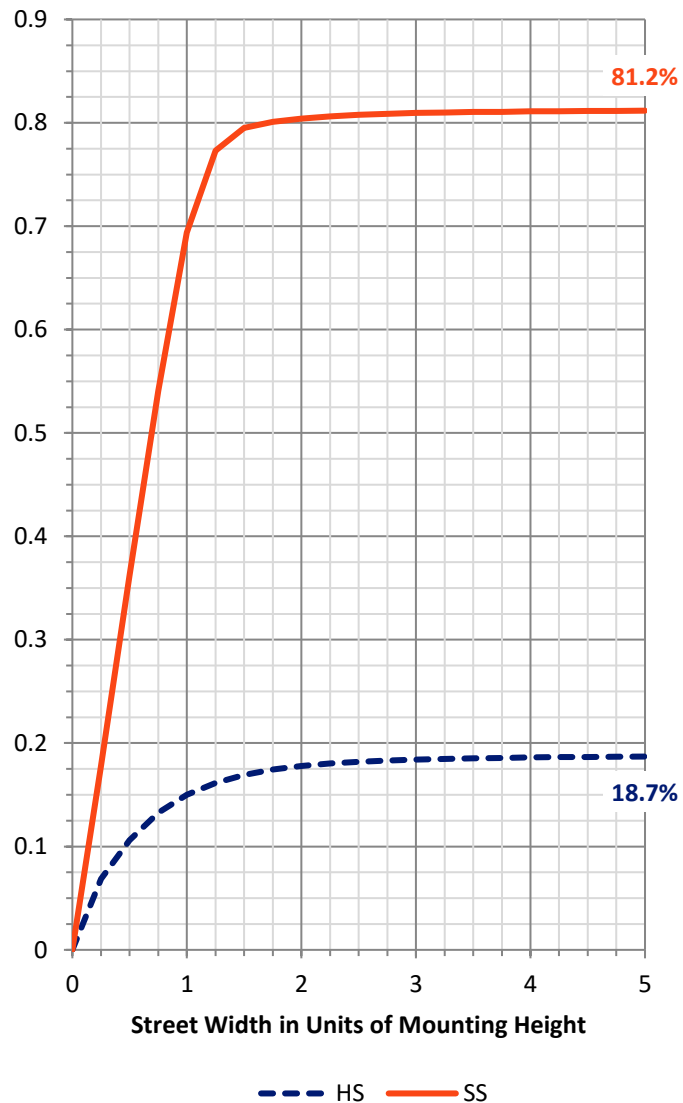
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6503.7	0.0	6503.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	28094.7	0.0	28094.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	34598.4	0.0	34598.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	898.9	2.6
10°-20°	2409.3	7.0
20°-30°	4058.4	11.7
30°-40°	6810.3	19.7
40°-50°	10418.0	30.1
50°-60°	7595.6	22.0
60°-70°	1690.4	4.9
70°-80°	609.7	1.8
80°-90°	107.9	0.3
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°	34598.4	100.0
0°-180°	34598.4	100.0

Coefficient of Utilization

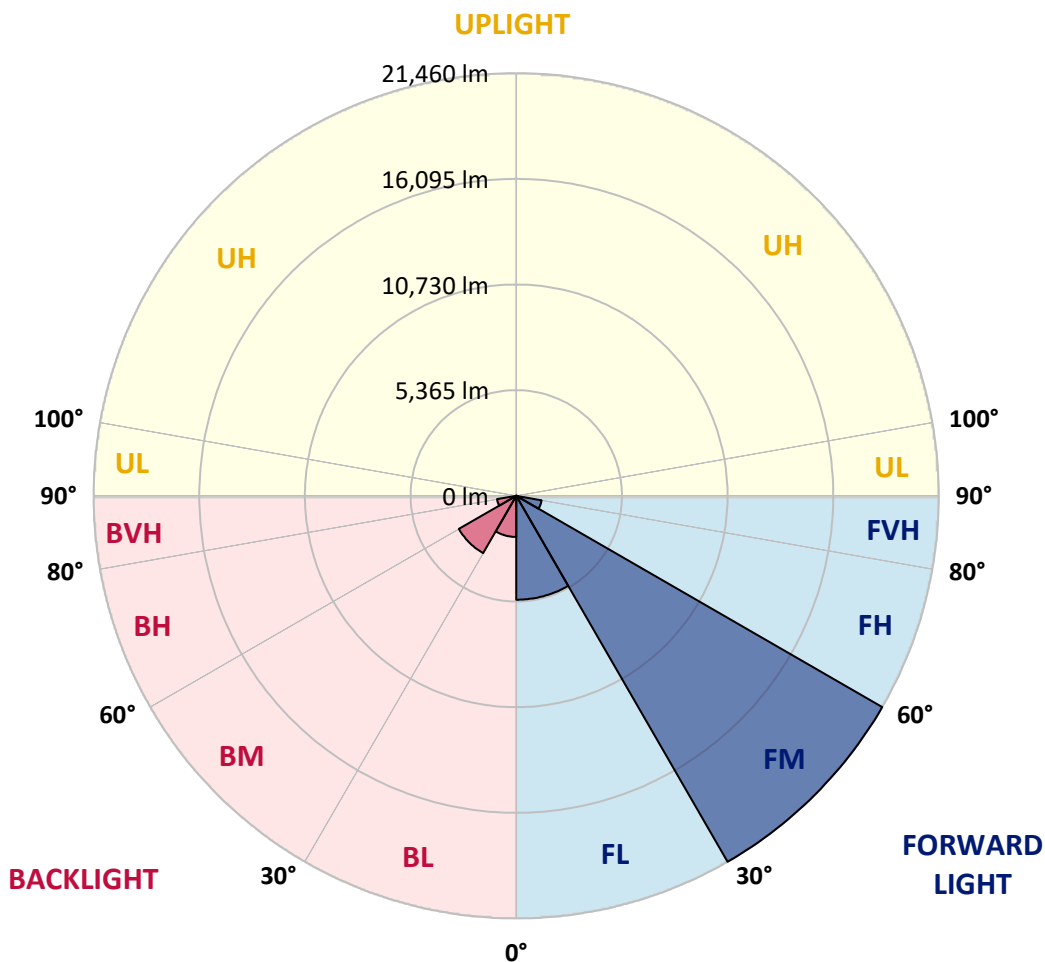


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5277.4	15.3			
FM (30°-60°)	21459.7	62.0			
FH (60°-80°)	1309.2	3.8			G1/1800
FVH (80°-90°)	48.4	0.1			G1/100
BL (0°-30°)	2089.1	6.0	B3/2500		
BM (30°-60°)	3364.1	9.7	B3/5000		
BH (60°-80°)	990.9	2.9	B2/1000		G2/1000
BVH (80°-90°)	59.6	0.2			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°	52°	55°	65°	75°	85°
0°	9752.7	9752.7	9752.7	9752.7	9752.7	9752.7	9752.7	9752.7	9752.7	9752.7	9752.7
2.5°	11483.1	11262.1	11287.1	11128.7	10957.8	10907.7	10732.6	10565.8	10440.7	10173.8	9927.8
5°	12550.6	12483.8	12383.8	12258.6	12129.4	11812.5	11633.2	11424.8	10966.1	10553.3	10144.6
7.5°	12704.8	12692.3	12746.5	12746.5	12792.3	12671.4	12417.1	12271.2	11783.3	11112.0	10353.1
10°	11620.7	11658.2	11920.9	12262.8	12738.2	13067.6	13025.8	12988.3	12454.6	11537.3	10599.2
12.5°	10757.6	10674.2	10828.5	11120.3	11833.3	12629.8	13167.6	13171.8	13034.2	12217.0	10778.5
15°	10269.7	10328.2	10369.8	10507.4	11045.3	11966.8	12913.3	13192.7	13797.2	12696.5	11062.0
17.5°	10582.5	10386.5	10378.2	10411.6	10686.7	11378.9	12442.1	12921.6	14214.2	13313.6	11412.2
20°	10991.1	10986.9	10870.2	10828.5	10824.3	11441.4	12133.6	12784.0	14435.2	14114.1	11766.6
22.5°	11708.3	11708.3	11516.4	11424.8	11228.8	11733.3	12175.3	12617.3	14802.1	14664.5	11937.6
25°	12909.1	12713.2	12383.8	12158.6	12046.0	12225.3	12617.3	13013.4	15123.2	15248.3	12292.0
27.5°	14018.2	13709.7	13547.1	13159.3	13009.2	12904.9	13263.6	13663.8	15498.5	16157.3	12483.8
30°	15277.4	15223.2	14931.3	14431.0	14059.9	13868.1	14197.5	14593.6	16186.4	17087.1	12925.8
32.5°	17529.0	17037.1	16640.9	16028.0	15423.4	15014.8	15340.0	15602.7	17328.9	18058.6	13409.5
35°	19959.9	19801.5	19117.6	18012.8	17087.1	16720.1	16911.9	17107.9	18659.0	19543.0	14222.6
37.5°	22349.1	22132.3	21569.4	20639.6	19513.8	18767.4	18905.0	19134.3	20151.8	21544.4	15214.9
40°	24067.0	23800.1	23516.6	23379.0	22261.6	21240.0	21160.8	21219.1	22169.9	23420.7	16315.7
42.5°	24192.1	24521.5	24609.1	25163.6	24900.9	24062.8	23575.0	23587.5	24096.2	25276.2	17429.0
45°	23929.4	23625.0	24271.3	25784.9	26652.1	27044.1	26222.7	26118.5	25288.7	26351.9	17983.6
47.5°	21173.3	21256.6	22349.1	24742.5	27248.4	28999.7	28807.8	28461.7	25926.6	26314.4	17895.9
50°	16736.8	17241.3	18254.5	21235.8	25580.5	29308.2	30438.2	29637.6	25547.2	25280.3	17003.7
52.5°	11145.4	11353.8	12021.0	15869.5	20568.7	26197.7	28561.8	28745.3	25196.9	23925.3	15873.7
55°	4961.9	4945.2	5883.3	8289.2	12904.9	19934.9	23337.3	24454.7	23850.2	22545.1	14772.9
57.5°	2101.5	2172.4	2555.9	3581.7	6346.1	12029.3	15811.2	16791.0	18342.1	18513.1	11333.0
60°	1421.8	1430.1	1534.4	1792.9	2656.0	5649.8	8293.4	9469.2	10578.3	10503.2	6012.6
62.5°	1117.4	1146.6	1225.9	1330.1	1576.1	2564.3	3711.0	4365.6	4436.5	3731.8	2280.8
65°	954.9	959.0	1038.3	1125.8	1234.2	1492.7	1788.8	1822.1	1842.9	1776.2	1676.2
67.5°	788.1	796.4	859.0	959.0	1059.1	1142.5	1225.9	1267.6	1363.4	1551.1	1526.1
70°	625.5	638.0	692.2	775.6	867.3	917.3	1021.6	1059.1	1146.6	1292.6	1351.0
72.5°	475.4	479.5	525.4	583.7	667.1	717.1	804.8	846.4	904.8	1029.9	1084.1
75°	341.9	354.4	387.7	416.9	429.5	462.8	546.2	592.1	675.5	729.7	733.8
77.5°	179.3	187.6	196.0	196.0	237.6	300.2	354.4	379.4	437.8	479.5	458.7
80°	70.9	75.1	95.9	129.3	166.8	216.8	254.3	266.8	316.9	341.9	354.4
82.5°	41.7	45.9	62.6	91.8	120.9	154.3	183.5	196.0	229.3	258.5	266.8
85°	20.8	25.1	37.5	58.4	79.2	95.9	91.8	87.5	87.5	83.4	87.5
87.5°	8.4	8.4	12.5	12.5	12.5	16.7	20.8	20.8	20.8	25.1	25.1
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°	9752.7	9752.7	9752.7	9752.7	9752.7	9752.7	9752.7	9752.7	9752.7	9752.7	9752.7
2.5°	9765.3	9598.5	9444.2	9160.6	8852.0	8764.5	8406.0	8276.7	8184.9	8076.6	8043.2
5°	9815.3	9594.3	9098.1	8526.9	8072.3	7488.6	7105.0	6692.2	6392.0	6316.9	6296.1
7.5°	9919.5	9540.1	8685.3	7822.2	6892.4	6100.1	5495.6	5170.3	4882.6	4866.0	4836.7
10°	10036.3	9377.4	8235.0	6879.8	5691.5	4957.6	4594.9	4453.2	4382.3	4365.6	4357.2
12.5°	10132.2	9344.1	7730.5	5962.5	4840.9	4399.0	4290.5	4278.0	4307.2	4315.6	4332.3
15°	10173.8	9210.7	7121.7	5141.1	4311.4	4148.7	4194.6	4244.6	4265.5	4319.7	4278.0
17.5°	10253.1	9039.7	6371.2	4490.7	4015.3	4044.5	4123.7	4182.1	4215.5	4253.0	4198.8
20°	10294.8	8885.4	5666.5	4102.9	3911.1	3965.3	4073.7	4119.6	4161.3	4177.9	4115.4
22.5°	10257.2	8568.5	5045.3	3790.2	3811.0	3881.9	3977.8	4027.8	4002.9	3936.1	3898.6
25°	10157.2	8122.4	4399.0	3590.1	3669.3	3794.3	3869.4	3831.8	3786.0	3748.5	3736.0
27.5°	10153.0	7576.2	3931.9	3406.6	3548.3	3719.3	3694.3	3660.9	3681.7	3652.6	3619.3
30°	10173.8	7046.6	3548.3	3302.3	3460.8	3544.2	3573.4	3540.0	3565.0	3510.8	3527.5
32.5°	10065.5	6529.6	3298.2	3181.4	3356.6	3352.3	3448.3	3473.3	3414.9	3302.3	3319.0
35°	10111.3	6112.6	3085.5	3127.2	3239.8	3239.8	3314.8	3285.6	3131.4	3064.7	3081.3
37.5°	10428.2	5704.0	2981.3	3052.1	3127.2	3160.6	3135.5	3010.5	2972.9	2972.9	2981.3
40°	10728.4	5353.8	2918.7	3035.5	3023.0	3043.8	2860.4	2872.8	2872.8	2877.1	2856.1
42.5°	10995.3	5116.1	2868.7	2935.4	2956.2	2847.8	2735.3	2722.7	2751.9	2747.8	2731.1
45°	11091.2	4920.1	2797.8	2822.8	2839.5	2660.2	2606.0	2581.0	2614.4	2626.9	2643.6
47.5°	10724.2	4757.5	2718.6	2668.5	2635.2	2518.4	2447.6	2401.7	2443.4	2514.3	2531.0
50°	10253.1	4544.8	2593.5	2497.6	2426.8	2376.6	2326.6	2280.8	2309.9	2360.0	2347.5
52.5°	9556.7	4211.3	2435.1	2335.0	2214.1	2226.5	2180.7	2155.7	2172.4	2172.4	2159.8
55°	8564.4	3460.8	2168.2	2097.3	1997.3	2030.6	2038.9	2005.6	1972.2	2001.4	1976.4
57.5°	5845.8	2443.4	1934.7	1934.7	1834.6	1880.5	1876.3	1797.1	1717.9	1726.2	1709.5
60°	3381.5	1947.2	1784.6	1767.9	1663.6	1701.2	1709.5	1655.3	1534.4	1542.7	1526.1
62.5°	1922.2	1663.6	1559.4	1534.4	1513.5	1546.9	1546.9	1476.0	1371.8	1380.1	1363.4
65°	1634.5	1542.7	1392.6	1388.5	1380.1	1388.5	1355.1	1280.0	1188.4	1150.8	1155.0
67.5°	1484.4	1426.0	1280.0	1242.5	1217.6	1213.3	1150.8	1079.9	1038.3	1004.9	1000.7
70°	1301.0	1255.1	1146.6	1096.6	1071.6	1013.2	950.6	904.8	846.4	829.7	846.4
72.5°	1029.9	1025.7	984.0	929.8	875.6	829.7	775.6	713.0	658.8	646.3	617.1
75°	713.0	721.4	729.7	721.4	675.5	617.1	554.5	504.5	437.8	400.3	392.0
77.5°	467.0	479.5	492.0	475.4	446.2	392.0	350.2	287.7	237.6	208.5	204.3
80°	341.9	358.6	366.9	354.4	321.0	279.4	233.5	183.5	146.0	120.9	120.9
82.5°	262.7	279.4	287.7	266.8	233.5	200.1	166.8	129.3	100.1	79.2	75.1
85°	91.8	87.5	104.2	108.4	129.3	120.9	100.1	75.1	58.4	41.7	37.5
87.5°	25.1	25.1	29.2	29.2	25.1	20.8	20.8	20.8	16.7	12.5	12.5
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)