

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: P529332

Luminaire Tested: **GALN-SA4C-727-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA4C-727-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19510 lumens
Efficiency: N/A
Efficacy: 91.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

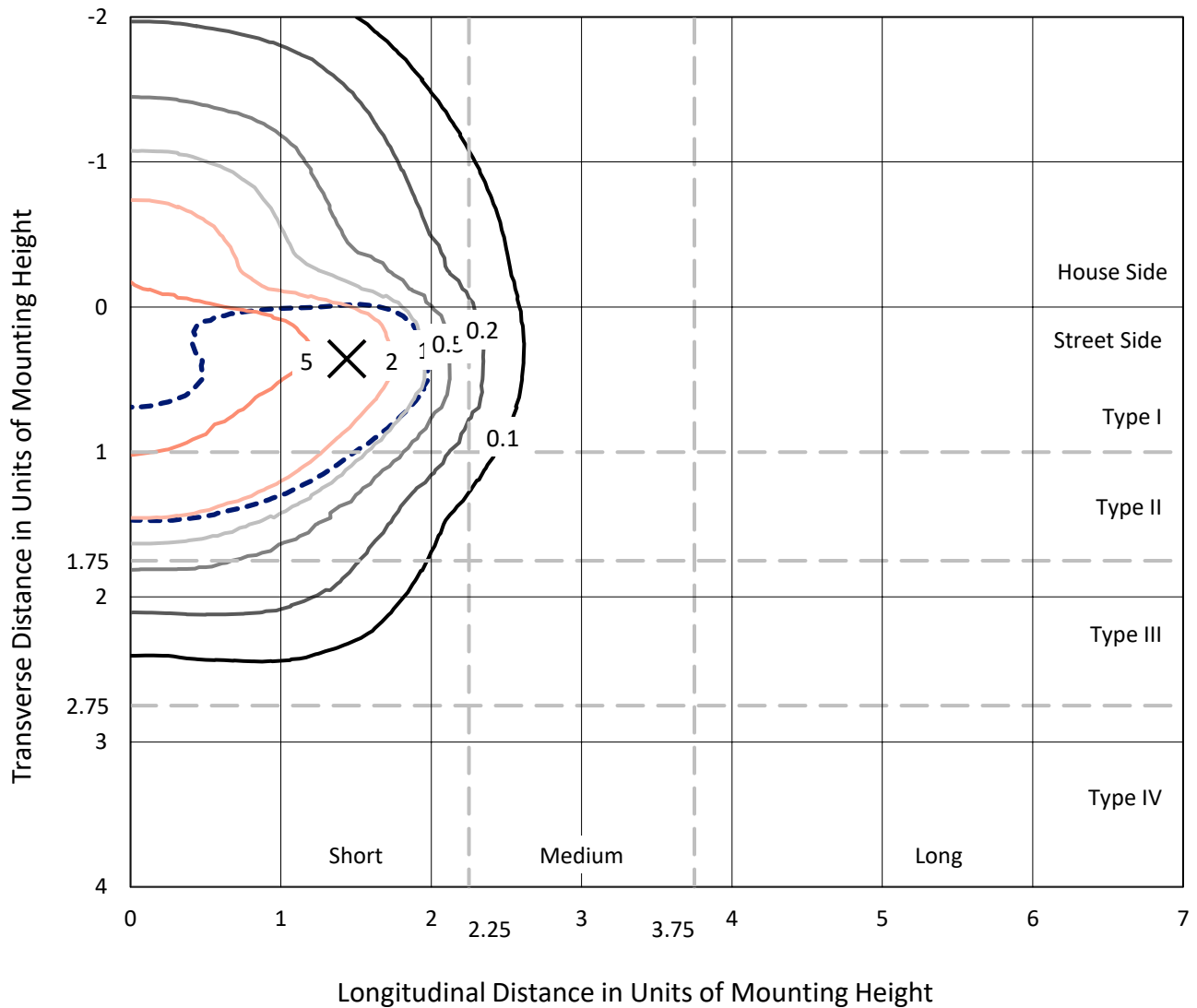
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

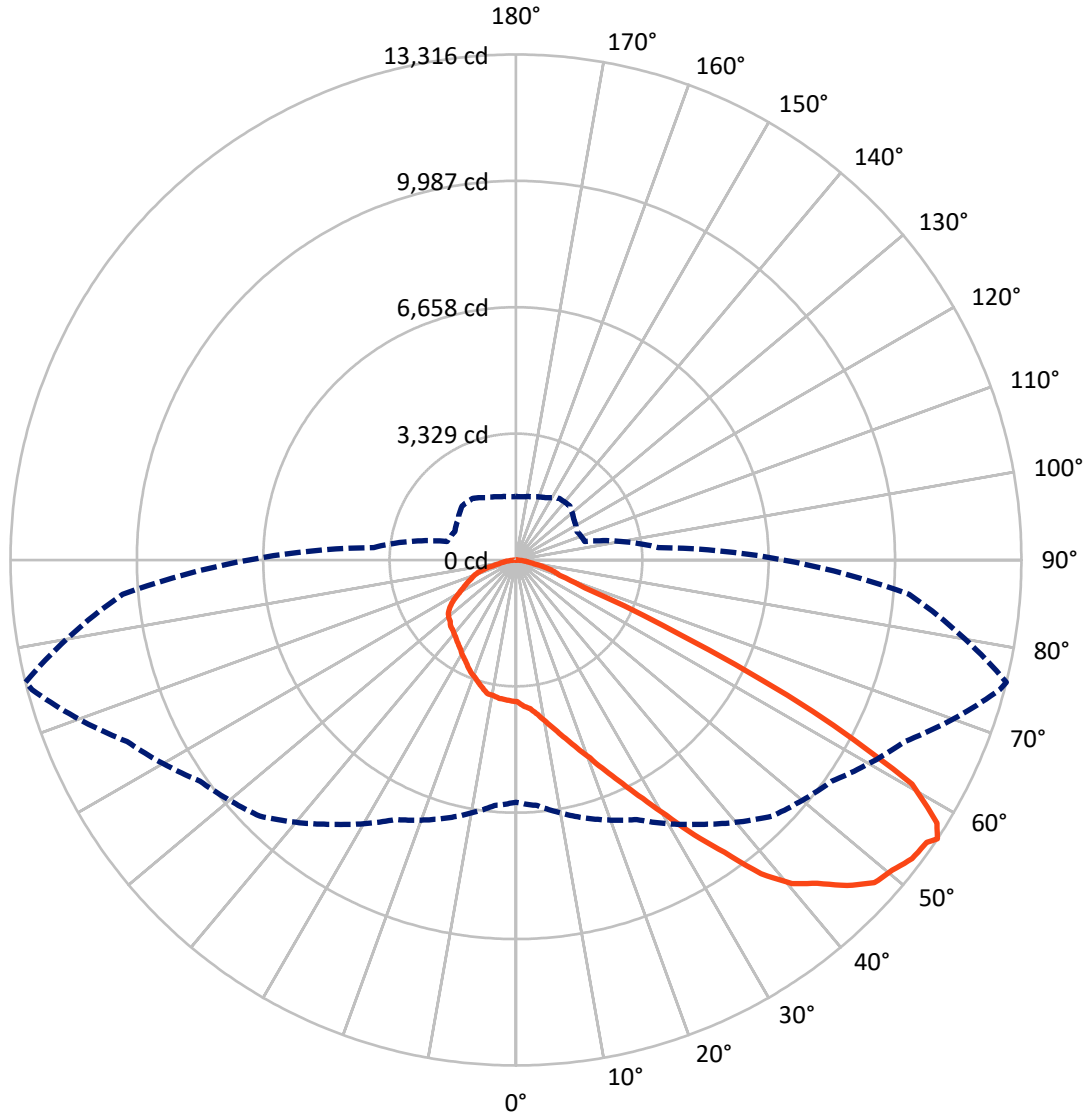
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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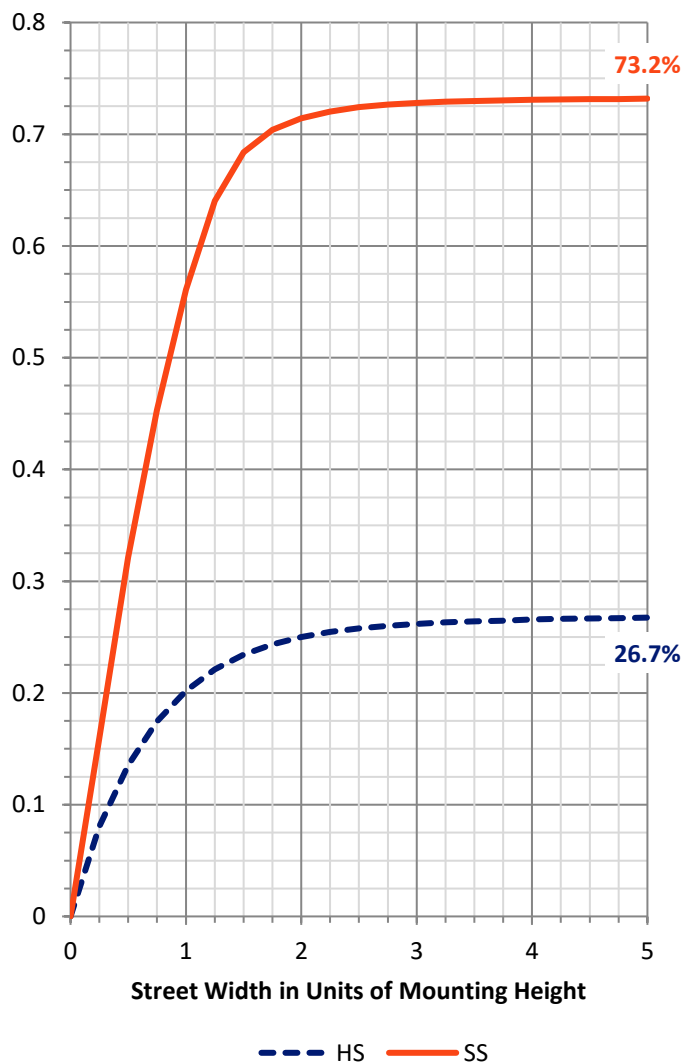
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5245.7	0.0	5245.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	14264.4	0.0	14264.4
	% Fixture	73.1	0.0	73.1
Total	Lumens	19510.0	0.0	19510.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.2	1.9
10°-20°	1162.9	6.0
20°-30°	2033.8	10.4
30°-40°	3184.3	16.3
40°-50°	4632.3	23.7
50°-60°	5091.2	26.1
60°-70°	2272.5	11.6
70°-80°	656.4	3.4
80°-90°	106.5	0.5
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°	19510.0	100.0
0°-180°	19510.0	100.0

Coefficient of Utilization



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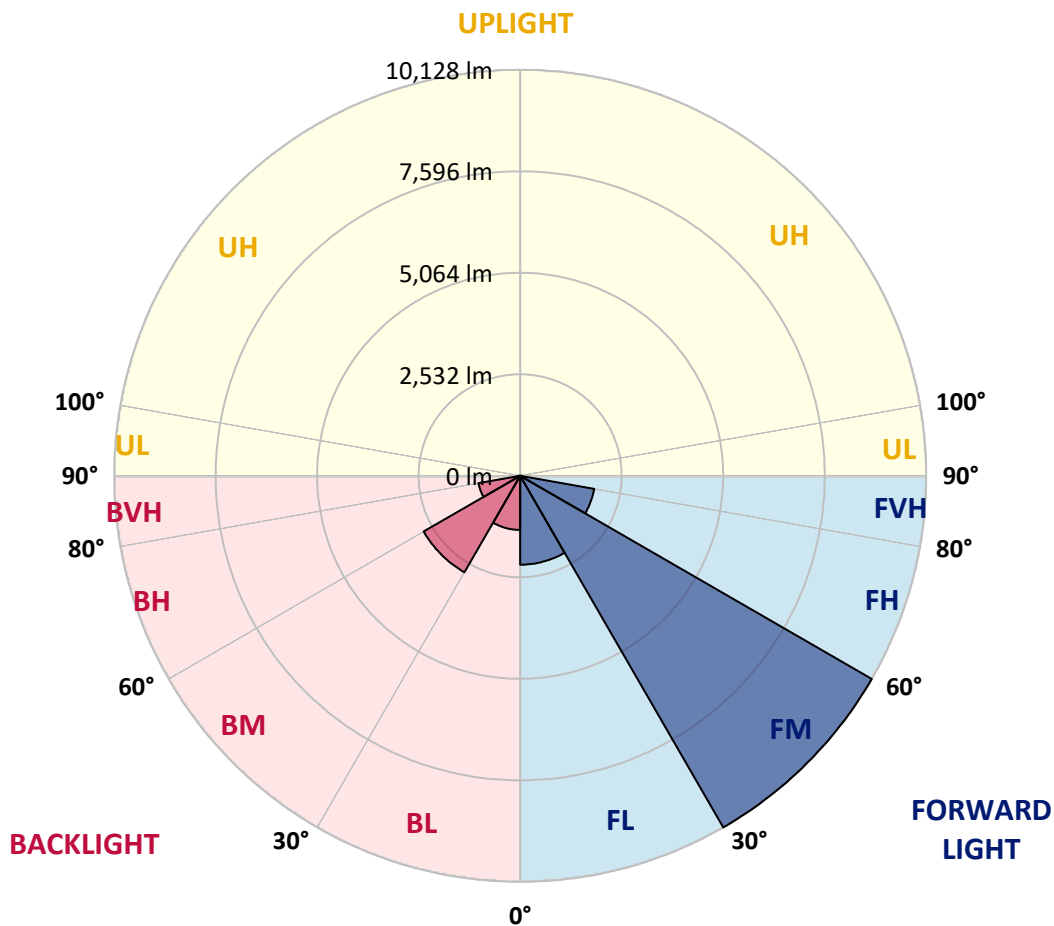
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2217.1	11.4			
FM (30°-60°)	10128.0	51.9			
FH (60°-80°)	1873.4	9.6			G2/5000
FVH (80°-90°)	45.8	0.2			G1/100
BL (0°-30°)	1349.8	6.9	B3/2500		
BM (30°-60°)	2779.8	14.2	B3/5000		
BH (60°-80°)	1055.4	5.4	B3/2500		G3/2500
BVH (80°-90°)	60.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3733.0	3733.0	3733.0	3733.0	3733.0	3733.0	3733.0	3733.0	3733.0	3733.0	3733.0
2.5°	4112.4	4046.6	4041.5	4023.8	4034.0	3988.4	3940.4	3877.1	3811.4	3851.9	3755.8
5°	4400.7	4312.2	4347.6	4286.9	4294.5	4233.8	4135.1	4061.8	3980.8	3932.8	3864.5
7.5°	4501.8	4509.4	4534.7	4524.6	4474.0	4474.0	4408.3	4279.3	4137.6	4109.8	3996.0
10°	4638.4	4640.9	4613.1	4620.7	4691.5	4658.6	4600.5	4544.8	4362.7	4329.9	4127.5
12.5°	4686.5	4640.9	4686.5	4726.9	4810.4	4855.9	4843.3	4802.8	4608.1	4585.3	4289.4
15°	4694.1	4666.2	4704.2	4795.2	4868.6	5060.8	5156.9	5129.1	4871.1	4873.6	4471.5
17.5°	4658.6	4696.6	4711.8	4790.2	4959.6	5139.2	5417.4	5455.3	5242.9	5210.0	4701.6
20°	4706.7	4678.9	4699.1	4769.9	4995.0	5275.8	5639.9	5890.3	5591.9	5569.1	4939.4
22.5°	4891.3	4853.4	4848.3	4893.9	5055.7	5346.6	5875.2	6325.3	6016.8	6029.4	5235.3
25°	5035.5	5055.7	5038.0	5035.5	5136.7	5452.8	6186.2	6843.8	6593.4	6520.1	5584.3
27.5°	5283.3	5331.4	5296.0	5344.0	5321.3	5612.1	6408.8	7417.9	7215.6	7117.0	5900.4
30°	5627.3	5652.6	5619.7	5619.7	5551.4	5834.7	6611.1	8017.3	7933.9	7799.8	6272.2
32.5°	6080.0	6118.0	6052.2	6014.3	6004.1	6166.0	6975.3	8609.1	8750.8	8637.0	6765.4
35°	6679.4	6656.7	6578.3	6542.8	6406.3	6674.4	7516.6	9289.5	9661.3	9458.9	7362.3
37.5°	7208.0	7172.6	7167.5	6970.3	7003.1	7223.2	7976.9	9805.4	10543.9	10485.8	7992.0
40°	7701.2	7734.1	7787.2	7675.9	7625.3	7868.1	8513.0	10200.0	11229.3	11206.6	8477.6
42.5°	8229.8	8199.4	8293.0	8199.4	8123.5	8467.5	9094.7	10473.1	11831.2	11644.1	8986.0
45°	8996.1	8900.0	8932.9	8940.5	8884.8	9011.3	9335.0	10670.4	12253.6	12233.4	9357.8
47.5°	9636.0	9638.5	9582.9	9539.9	9370.4	9496.9	9603.1	10794.3	12739.2	12706.3	9501.9
50°	9873.7	9840.8	10002.7	10096.3	10106.4	9848.4	9813.0	10862.6	12994.6	12850.5	9646.1
52.5°	9018.9	9049.2	9304.6	9861.1	10182.3	10210.1	10058.3	11004.2	13098.3	13068.0	9762.4
55°	7258.6	7405.3	7825.1	8467.5	9228.8	10065.9	10323.9	11150.9	13154.0	13128.7	10278.4
56°	6381.0	6494.8	7041.1	7544.4	8500.4	9542.4	10157.0	11307.7	13197.0	13315.8	10399.8
57.5°	5136.7	5268.2	5660.2	6231.8	7359.8	8545.9	9696.7	11115.5	13030.1	13075.6	10488.3
60°	3212.0	3224.6	3695.1	4071.9	4866.0	6024.4	7400.2	9671.4	12058.9	11993.1	9421.0
62.5°	2106.8	2109.3	2536.7	2845.3	3206.9	3472.5	4355.2	6413.9	8897.5	8781.1	6707.2
65°	1479.5	1512.4	1843.7	2256.0	2402.7	2263.6	2235.7	3381.4	4969.7	4802.8	3604.0
67.5°	1082.5	1085.0	1378.4	1821.0	2033.4	1722.3	1398.6	1651.5	1967.7	1962.6	1669.2
70°	715.7	746.1	971.2	1360.7	1603.5	1383.4	1143.2	1181.1	1251.9	1251.9	1241.8
72.5°	417.3	445.1	594.3	862.4	900.4	865.0	905.4	1011.6	1057.2	1054.6	1042.0
75°	237.7	250.4	283.3	359.1	447.7	528.6	665.2	766.3	811.8	839.7	806.8
77.5°	139.1	146.7	166.9	204.9	232.7	285.8	361.7	432.5	493.2	485.6	490.7
80°	73.3	73.3	93.6	121.4	161.9	202.3	240.3	280.7	313.6	321.2	328.8
82.5°	43.0	45.5	60.7	88.5	116.3	144.2	184.6	212.4	242.8	245.3	250.4
85°	22.8	25.3	37.9	58.2	78.4	88.5	91.0	86.0	93.6	88.5	101.2
87.5°	7.6	7.6	12.6	10.1	10.1	12.6	15.2	15.2	20.2	20.2	20.2
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°	3733.0	3733.0	3733.0	3733.0	3733.0	3733.0	3733.0	3733.0	3733.0	3733.0	3733.0
2.5°	3753.2	3753.2	3710.2	3629.3	3616.6	3583.8	3553.4	3550.9	3528.1	3507.9	3497.8
5°	3824.0	3745.6	3682.4	3609.1	3523.1	3482.6	3437.1	3386.5	3366.3	3386.5	3384.0
7.5°	3905.0	3839.2	3649.5	3513.0	3414.3	3373.9	3323.3	3270.2	3275.2	3275.2	3239.8
10°	3983.4	3894.9	3591.4	3416.8	3272.7	3242.3	3214.5	3234.8	3260.0	3265.1	3242.3
12.5°	4114.9	3915.1	3563.5	3320.7	3229.7	3163.9	3181.6	3237.3	3290.4	3275.2	3292.9
15°	4213.5	3932.8	3437.1	3222.1	3108.3	3138.6	3201.9	3239.8	3328.3	3318.2	3335.9
17.5°	4309.6	3942.9	3313.2	3090.6	3042.5	3126.0	3174.1	3282.8	3310.6	3371.3	3394.1
20°	4506.9	3963.1	3186.7	3009.7	2994.5	3090.6	3174.1	3224.6	3285.3	3338.4	3338.4
22.5°	4608.1	3953.0	3103.2	2903.4	2951.5	3012.2	3088.1	3174.1	3174.1	3224.6	3227.2
25°	4734.5	3912.6	2971.7	2852.9	2888.3	2946.4	3032.4	3002.1	3034.9	3034.9	3075.4
27.5°	4878.7	3826.6	2857.9	2761.8	2832.6	2895.8	2908.5	2888.3	2850.3	2845.3	2830.1
30°	4995.0	3720.3	2774.4	2731.5	2789.6	2825.0	2784.6	2741.6	2675.8	2670.8	2635.3
32.5°	5154.4	3588.8	2670.8	2655.6	2721.3	2723.9	2711.2	2645.5	2549.4	2508.9	2468.4
35°	5422.4	3513.0	2592.4	2615.1	2635.3	2627.8	2605.0	2534.2	2438.1	2420.4	2405.2
37.5°	5619.7	3457.3	2511.4	2539.2	2556.9	2567.1	2498.8	2420.4	2422.9	2387.5	2377.4
40°	5842.3	3421.9	2445.7	2458.3	2460.8	2493.7	2410.3	2372.3	2390.0	2367.3	2382.4
42.5°	6128.1	3432.0	2377.4	2367.3	2415.3	2402.7	2362.2	2311.6	2321.7	2253.5	2263.6
45°	6279.8	3500.3	2336.9	2291.4	2344.5	2342.0	2288.9	2240.8	2180.1	2048.6	2053.6
47.5°	6381.0	3518.0	2240.8	2210.5	2266.1	2299.0	2238.3	2127.0	2041.0	1947.4	1924.7
50°	6484.7	3550.9	2195.3	2132.1	2154.8	2233.2	2157.3	2051.1	1967.7	1884.2	1896.8
52.5°	6575.7	3614.1	2106.8	2013.2	2053.6	2139.6	2099.2	1970.2	1879.1	1810.9	1790.6
55°	6980.4	3755.8	1957.5	1836.1	1932.3	2041.0	2018.2	1861.4	1762.8	1727.4	1722.3
56°	7043.6	3760.8	1879.1	1775.4	1864.0	2008.1	1980.3	1813.4	1724.9	1669.2	1671.8
57.5°	7053.7	3700.1	1767.9	1719.8	1795.7	1960.1	1924.7	1775.4	1654.0	1603.5	1588.3
60°	6206.5	2888.3	1628.8	1598.4	1686.9	1813.4	1800.7	1671.8	1535.2	1477.0	1504.8
62.5°	4231.2	2116.9	1520.0	1514.9	1560.5	1684.4	1651.5	1535.2	1421.4	1383.4	1365.7
65°	2463.4	1606.0	1413.8	1393.5	1431.5	1497.2	1520.0	1398.6	1279.7	1254.4	1246.9
67.5°	1454.2	1327.8	1277.2	1244.3	1231.7	1272.1	1289.9	1219.0	1100.2	1064.8	1095.1
70°	1216.5	1181.1	1183.6	1128.0	1097.6	1069.8	1054.6	991.4	892.8	847.3	834.6
72.5°	1049.6	1034.4	1024.3	973.7	945.9	882.7	816.9	753.7	680.3	642.4	644.9
75°	801.7	796.7	801.7	776.4	728.4	677.8	617.1	536.2	480.5	432.5	442.6
77.5°	478.0	493.2	500.8	490.7	470.4	424.9	387.0	333.8	280.7	242.8	237.7
80°	328.8	341.4	354.1	341.4	321.2	288.3	247.9	207.4	169.5	149.2	144.2
82.5°	250.4	263.0	270.6	258.0	232.7	197.3	169.5	141.6	111.3	91.0	86.0
85°	91.0	103.7	101.2	121.4	131.5	126.5	108.8	83.5	63.2	45.5	43.0
87.5°	25.3	22.8	25.3	25.3	25.3	22.8	20.2	20.2	20.2	12.6	10.1
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)