

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: P453636

Luminaire Tested: **GALN-SA4C-830-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453636
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA4C-830-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22616 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

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



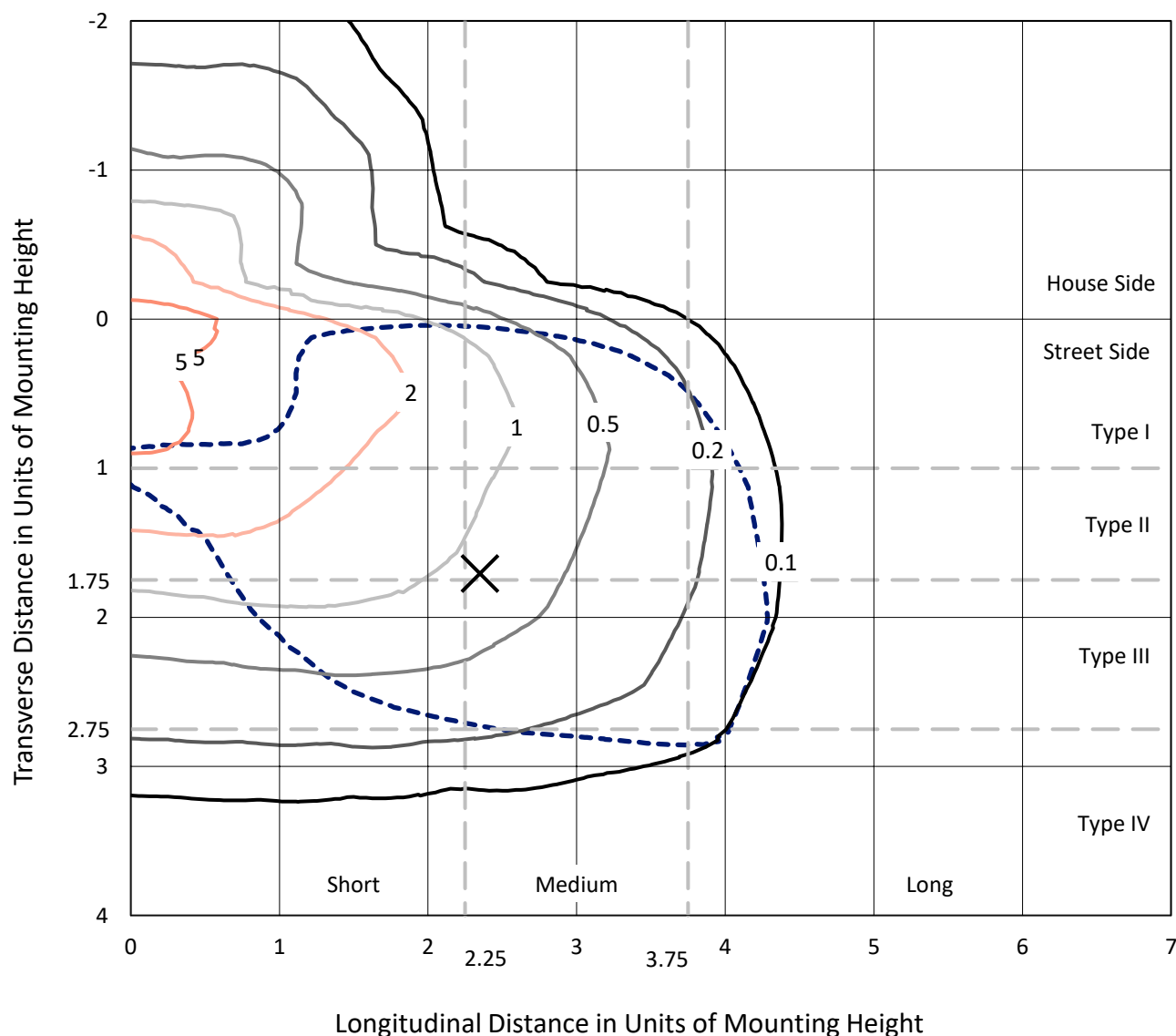
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

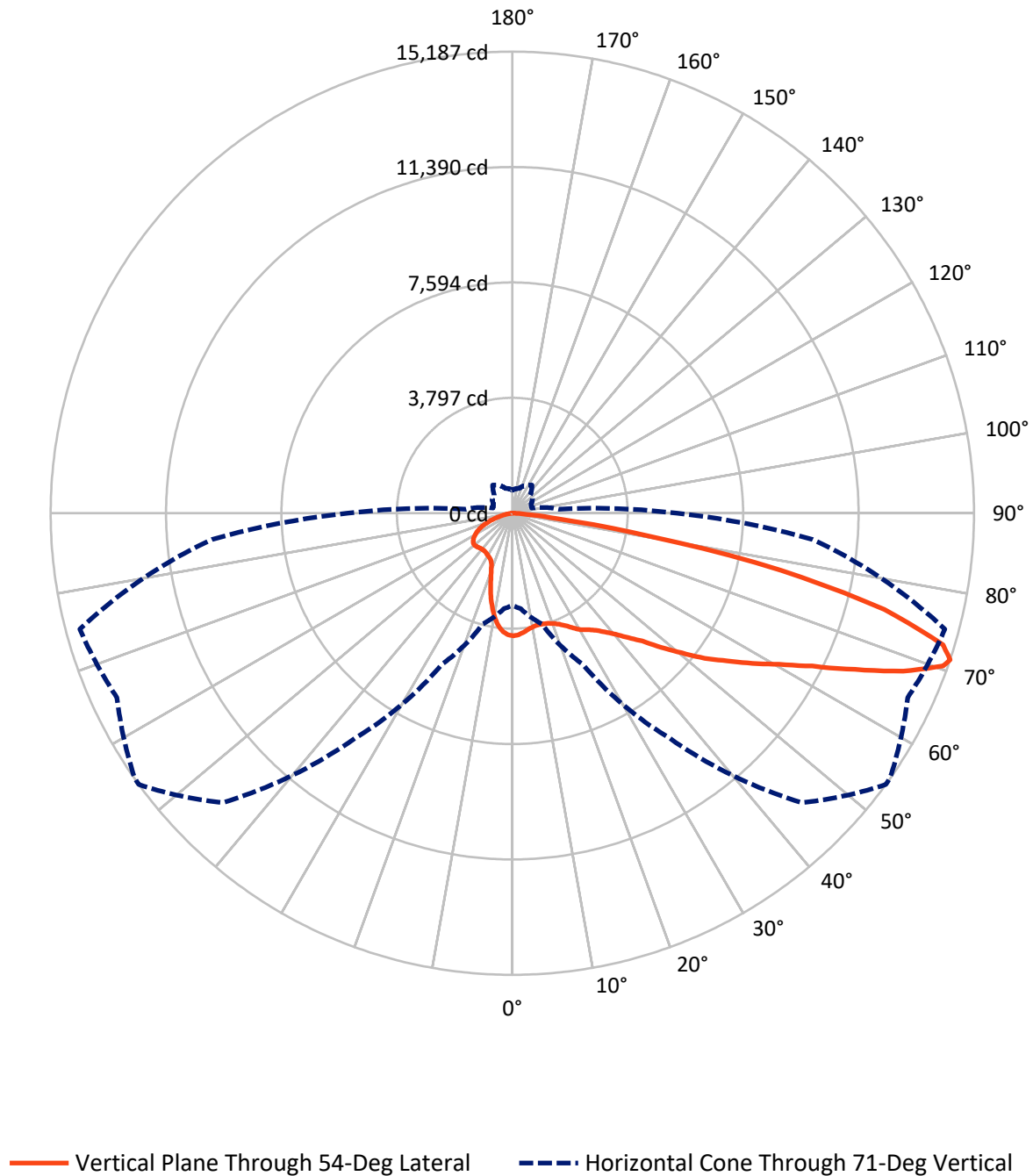


Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4083.2	0.0	4083.2
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	18532.8	0.0	18532.8
	% Fixture	81.9	0.0	81.9
Total	Lumens	22616.0	0.0	22616.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	359.6	1.6
10°-20°	949.5	4.2
20°-30°	1580.9	7.0
30°-40°	2337.7	10.3
40°-50°	3292.7	14.6
50°-60°	4409.0	19.5
60°-70°	5557.3	24.6
70°-80°	3795.6	16.8
80°-90°	333.8	1.5
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°	22616.0	100.0
0°-180°	22616.0	100.0

Coefficient of Utilization



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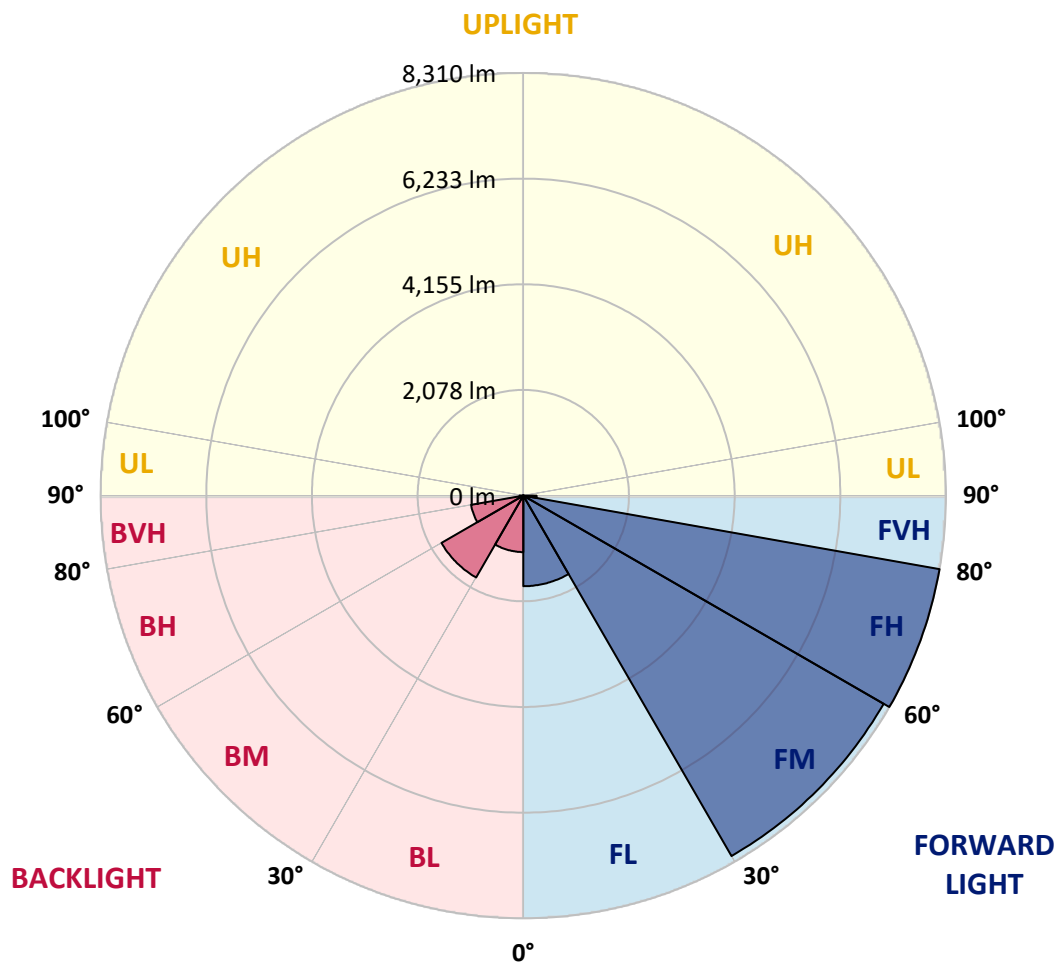
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1780.2	7.9			
FM	(30°-60°)	8181.7	36.2			
FH	(60°-80°)	8310.0	36.7			G4/12000
FVH	(80°-90°)	260.9	1.2			G3/500
BL	(0°-30°)	1109.7	4.9	B3/2500		
BM	(30°-60°)	1857.7	8.2	B2/2500		
BH	(60°-80°)	1042.8	4.6	B3/2500		G3/2500
BVH	(80°-90°)	72.9	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-G4

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	4035.0	4035.0	4035.0	4035.0	4035.0	4035.0	4035.0	4035.0	4035.0	4035.0	4035.0
2.5°	3898.2	3916.5	3921.4	3933.6	3959.3	3980.1	4000.8	3998.4	4027.7	4039.9	4050.9
5°	3724.7	3729.6	3747.9	3772.4	3817.6	3875.0	3931.2	3932.4	4004.5	4061.9	4090.0
7.5°	3597.7	3613.6	3625.8	3651.4	3699.1	3761.4	3850.6	3857.9	3986.2	4099.8	4159.6
10°	3514.6	3532.9	3546.4	3578.1	3625.8	3695.4	3791.9	3805.4	3972.7	4159.6	4264.7
12.5°	3438.9	3457.2	3469.4	3511.0	3573.3	3658.8	3767.5	3783.4	3977.6	4229.3	4379.5
15°	3485.3	3500.0	3495.1	3507.3	3548.8	3646.6	3777.3	3793.1	3995.9	4296.5	4493.1
17.5°	3691.8	3704.0	3663.7	3617.2	3597.7	3669.8	3807.8	3824.9	4032.6	4366.1	4609.2
20°	3995.9	4028.9	3941.0	3837.1	3743.1	3752.8	3871.3	3889.7	4083.9	4435.7	4727.7
22.5°	4391.7	4416.2	4308.7	4137.6	3964.2	3875.0	3966.6	3977.6	4160.9	4526.1	4857.2
25°	4857.2	4871.8	4722.8	4502.9	4252.5	4083.9	4097.3	4116.9	4287.9	4628.7	4972.0
27.5°	5309.2	5355.6	5183.4	4914.6	4584.8	4303.8	4276.9	4289.1	4425.9	4686.2	5051.4
30°	5845.5	5841.8	5659.8	5348.3	4925.6	4543.2	4446.7	4444.3	4500.5	4714.3	5108.8
32.5°	6273.0	6323.1	6144.8	5805.2	5315.3	4791.2	4564.0	4559.1	4557.9	4763.1	5194.4
35°	6759.3	6766.6	6602.9	6260.8	5736.8	5102.7	4727.7	4703.3	4675.2	4868.2	5310.4
37.5°	7194.2	7228.4	7078.1	6694.5	6150.9	5426.5	4952.5	4936.6	4851.1	5050.2	5496.1
40°	7533.8	7559.4	7469.0	7103.8	6558.9	5775.8	5238.3	5209.0	5105.2	5348.3	5744.1
42.5°	7644.9	7697.5	7732.9	7553.3	7028.0	6190.0	5590.2	5553.5	5474.1	5800.3	6029.9
45°	7653.5	7736.6	7923.5	7932.0	7499.6	6686.0	6000.6	5975.0	5968.9	6379.3	6431.9
47.5°	7588.7	7673.0	7987.0	8156.8	7919.8	7186.8	6593.1	6552.8	6556.5	7095.2	6882.6
50°	7432.4	7532.5	7913.7	8300.9	8248.4	7707.2	7218.6	7205.1	7280.9	7912.5	7350.5
52.5°	7138.0	7258.9	7837.9	8391.3	8492.7	8155.6	7929.6	7891.7	8083.5	8799.4	7862.4
55°	6323.1	6505.2	7560.6	8441.4	8724.8	8584.4	8569.7	8638.1	8892.2	9766.9	8425.6
57.5°	5898.0	6034.8	6958.4	8450.0	9018.0	9082.8	9317.3	9334.4	9779.1	10794.3	9062.0
60°	5665.9	5786.8	6628.5	8393.8	9427.3	9699.7	10082.1	10143.2	10645.2	11907.2	9721.7
62.5°	5463.1	5566.9	6430.6	8199.6	9889.1	10614.7	11072.8	11102.1	11628.7	13136.1	10372.8
65°	4985.5	5104.0	6032.4	8005.3	10287.3	11758.1	12387.3	12353.1	12675.6	14196.5	10780.8
67.5°	4341.7	4491.9	5288.4	7334.6	10484.0	13007.9	13867.9	13825.1	13709.1	14891.6	10898.1
70°	3519.5	3600.1	4336.8	6175.3	9698.5	13663.9	15037.0	14991.8	14349.2	14983.2	10343.5
71°	3028.4	3154.2	3776.0	5485.1	9044.9	13463.5	15187.2	15175.0	14350.4	14730.4	9925.7
72.5°	2363.8	2440.8	2990.5	4250.0	7687.7	12325.0	14815.9	14862.3	14038.9	14027.9	9064.5
75°	1495.3	1529.5	1876.4	2501.9	4218.3	8728.5	12647.5	12773.3	12465.5	11482.1	6740.9
77.5°	868.6	912.6	1123.9	1474.5	1822.7	4737.5	9049.8	9186.6	8661.3	6321.9	2759.7
80°	505.8	554.6	740.3	856.4	836.8	1757.9	4608.0	4841.3	3750.4	1596.7	774.5
82.5°	281.0	314.0	520.4	521.6	445.9	574.2	1450.1	1517.3	1070.1	643.8	316.4
85°	204.0	230.9	335.9	304.2	213.8	246.8	504.5	529.0	432.5	271.2	102.6
87.5°	72.1	102.6	184.5	146.6	58.6	51.3	145.4	118.5	109.9	75.7	23.2
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°	4035.0	4035.0	4035.0	4035.0	4035.0	4035.0	4035.0	4035.0	4035.0	4035.0	4035.0
2.5°	4057.0	4059.5	4047.2	4025.3	4003.3	3975.2	3943.4	3919.0	3908.0	3906.8	3905.5
5°	4101.0	4107.1	4060.7	3992.3	3916.5	3823.7	3744.3	3653.9	3630.7	3594.0	3605.0
7.5°	4171.9	4168.2	4076.6	3931.2	3754.1	3557.4	3391.2	3294.7	3194.6	3166.5	3167.7
10°	4273.2	4250.0	4076.6	3806.6	3511.0	3219.0	2986.9	2840.3	2760.9	2694.9	2670.5
12.5°	4380.7	4322.1	4037.5	3631.9	3198.2	2840.3	2591.1	2393.2	2341.9	2288.1	2289.3
15°	4483.4	4385.6	3960.5	3386.3	2861.0	2435.9	2194.0	2075.5	2059.7	2065.8	2064.5
17.5°	4576.2	4430.8	3843.2	3112.7	2467.7	2089.0	1960.7	1969.3	2012.0	2042.6	2046.2
20°	4670.3	4457.7	3668.5	2746.2	2096.3	1878.9	1883.7	1950.9	2015.7	2057.2	2063.3
22.5°	4759.5	4469.9	3463.3	2391.9	1827.6	1789.7	1861.8	1933.8	1997.4	2037.7	2043.8
25°	4818.1	4441.8	3172.6	2021.8	1695.6	1757.9	1833.7	1894.7	1948.5	1990.0	1999.8
27.5°	4834.0	4351.4	2812.2	1722.5	1634.5	1727.4	1797.0	1842.2	1883.7	1922.8	1930.2
30°	4825.4	4218.3	2416.4	1546.6	1599.1	1692.0	1745.7	1778.7	1828.8	1859.3	1865.4
32.5°	4812.0	4063.1	2003.5	1452.5	1569.8	1659.0	1690.7	1720.0	1718.8	1706.6	1715.2
35°	4816.9	3877.4	1668.7	1396.3	1544.1	1634.5	1661.4	1624.8	1519.7	1514.8	1509.9
37.5°	4842.5	3694.2	1425.6	1357.2	1530.7	1630.9	1645.5	1476.9	1384.1	1341.3	1330.4
40°	4908.5	3480.4	1265.6	1327.9	1529.5	1659.0	1573.5	1402.4	1224.1	1141.0	1134.9
42.5°	4996.4	3270.3	1167.9	1309.6	1544.1	1701.7	1544.1	1297.4	1103.1	1054.3	1046.9
45°	5127.2	3029.6	1114.1	1301.0	1566.1	1717.6	1534.4	1220.4	1054.3	1015.2	1015.2
47.5°	5275.0	2800.0	1084.8	1294.9	1594.2	1706.6	1447.6	1196.0	1031.1	1035.9	1059.1
50°	5421.6	2600.8	1062.8	1281.5	1618.7	1700.5	1412.2	1194.7	1037.2	1099.5	1141.0
52.5°	5591.4	2460.4	1035.9	1259.5	1618.7	1661.4	1401.2	1219.2	1054.3	1072.6	1090.9
55°	5796.6	2416.4	1001.7	1211.9	1589.3	1563.7	1395.1	1254.6	1066.5	1023.7	1031.1
57.5°	6067.8	2487.2	968.7	1152.0	1522.1	1462.3	1392.7	1264.4	1038.4	1003.0	995.6
60°	6383.0	2627.7	959.0	1090.9	1430.5	1375.6	1378.0	1236.3	999.3	962.6	968.7
62.5°	6604.1	2712.0	952.9	1044.5	1330.4	1280.3	1342.6	1202.1	982.2	950.4	956.5
65°	6604.1	2609.4	896.7	973.6	1200.9	1165.4	1299.8	1159.3	960.2	923.5	917.4
67.5°	6353.7	2310.1	811.2	867.4	1057.9	1034.7	1239.9	1108.0	927.2	899.1	884.5
70°	5701.3	1751.8	703.7	742.7	877.1	897.9	1163.0	1038.4	872.2	838.0	816.0
71°	5414.2	1525.8	658.5	679.2	807.5	838.0	1126.3	1009.1	847.8	798.9	759.9
72.5°	4860.8	1285.2	590.0	598.6	690.2	745.2	1049.4	952.9	801.4	731.8	687.8
75°	3693.0	938.2	475.2	470.3	510.6	591.3	888.1	849.0	702.4	608.4	582.7
77.5°	1595.4	510.6	355.5	359.2	346.9	448.3	698.8	729.3	602.3	494.8	471.5
80°	483.8	294.4	243.1	248.0	232.1	300.5	492.3	571.7	483.8	384.8	353.0
82.5°	248.0	175.9	166.1	163.7	147.8	169.8	298.1	390.9	345.7	240.7	212.6
85°	107.5	94.1	81.8	79.4	69.6	61.1	106.3	195.5	183.2	134.4	128.3
87.5°	26.9	24.4	15.9	14.7	8.6	1.2	0.0	0.0	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)