

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: P533492

Luminaire Tested: **GALN-SA8D-830-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533492
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-SA8D-830-U-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA 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: 41638 lumens
Efficiency: N/A
Efficacy: 84.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

Input Watts (W): 493
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



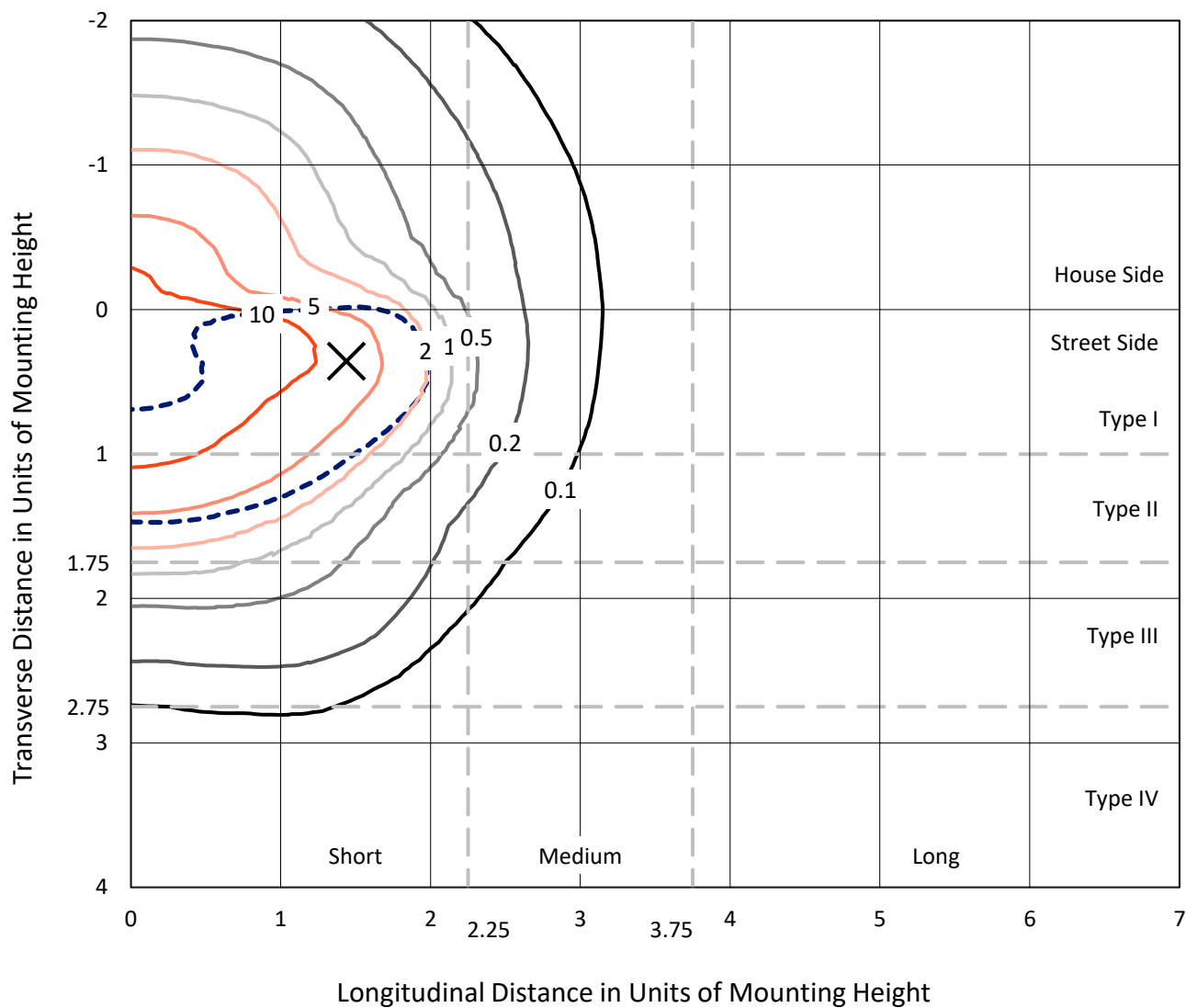
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

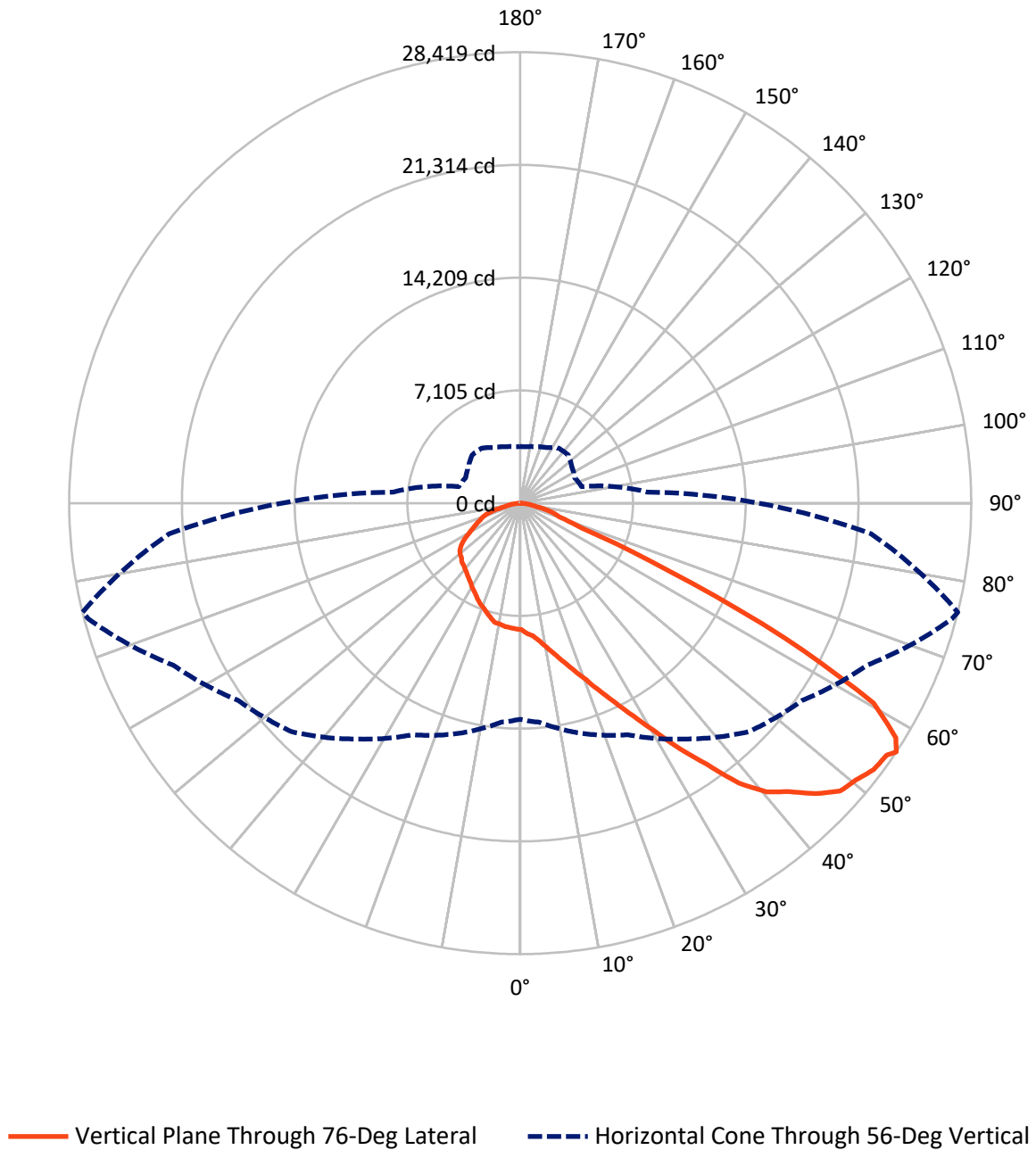


Based on 25 foot mounting height. Maximum calculated value = 17.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11195.2	0.0	11195.2
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	30442.8	0.0	30442.8
	% Fixture	73.1	0.0	73.1
Total	Lumens	41638.0	0.0	41638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	790.1	1.9
10°-20°	2481.9	6.0
20°-30°	4340.5	10.4
30°-40°	6795.9	16.3
40°-50°	9886.2	23.7
50°-60°	10865.5	26.1
60°-70°	4849.9	11.6
70°-80°	1400.8	3.4
80°-90°	227.2	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°	41638.0	100.0
0°-180°	41638.0	100.0

Coefficient of Utilization



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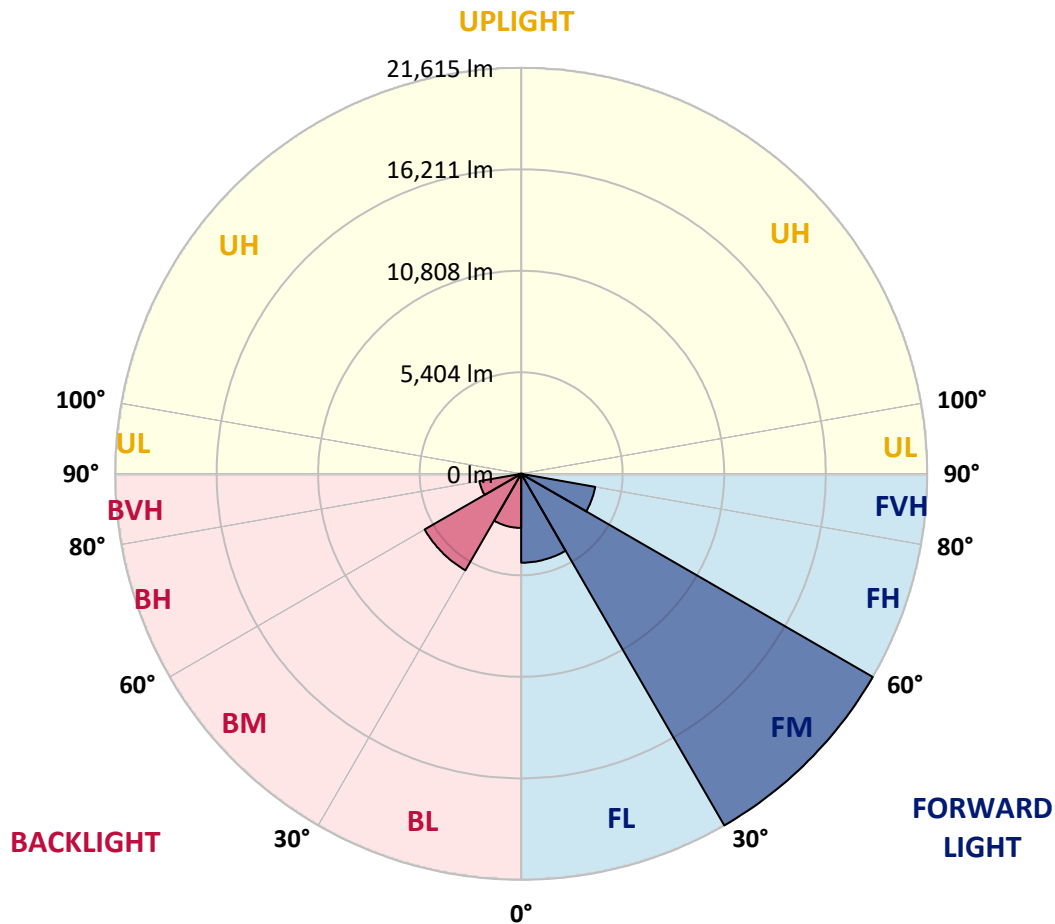
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4731.7	11.4			
FM	(30°-60°)	21615.1	51.9			
FH	(60°-80°)	3998.2	9.6			G2/5000
FVH	(80°-90°)	97.8	0.2			G1/100
BL	(0°-30°)	2880.7	6.9	B4/5000		
BM	(30°-60°)	5932.6	14.2	B4/8500		
BH	(60°-80°)	2252.5	5.4	B3/2500		G3/2500
BVH	(80°-90°)	129.4	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	7966.9	7966.9	7966.9	7966.9	7966.9	7966.9	7966.9	7966.9	7966.9	7966.9	7966.9
2.5°	8776.5	8636.2	8625.4	8587.6	8609.2	8512.1	8409.5	8274.6	8134.2	8220.6	8015.5
5°	9391.9	9203.0	9278.5	9149.0	9165.2	9035.6	8825.1	8668.6	8495.9	8393.3	8247.6
7.5°	9607.8	9624.0	9677.9	9656.4	9548.4	9548.4	9408.1	9132.8	8830.5	8771.1	8528.2
10°	9899.2	9904.6	9845.3	9861.5	10012.6	9942.4	9818.3	9699.5	9310.9	9240.7	8808.9
12.5°	10001.8	9904.6	10001.8	10088.2	10266.3	10363.4	10336.5	10250.1	9834.5	9785.9	9154.4
15°	10018.0	9958.6	10039.6	10233.9	10390.4	10800.7	11005.8	10946.4	10395.8	10401.2	9543.0
17.5°	9942.4	10023.4	10055.8	10223.1	10584.7	10968.0	11561.7	11642.7	11189.3	11119.1	10034.2
20°	10045.0	9985.6	10028.8	10179.9	10660.3	11259.4	12036.7	12571.1	11934.2	11885.6	10541.6
22.5°	10439.0	10358.0	10347.2	10444.4	10789.9	11410.6	12538.7	13499.5	12841.0	12867.9	11173.1
25°	10746.7	10789.9	10752.1	10746.7	10962.6	11637.3	13202.6	14606.0	14071.6	13915.1	11918.0
27.5°	11275.6	11378.2	11302.6	11405.2	11356.6	11977.3	13677.6	15831.2	15399.4	15188.9	12592.7
30°	12009.7	12063.7	11993.5	11993.5	11847.8	12452.3	14109.4	17110.5	16932.4	16646.3	13386.1
32.5°	12975.9	13056.9	12916.5	12835.6	12814.0	13159.4	14886.7	18373.5	18675.8	18432.9	14438.7
35°	14255.1	14206.6	14039.2	13963.7	13672.2	14244.3	16041.7	19825.5	20618.9	20187.1	15712.5
37.5°	15383.2	15307.7	15296.9	14875.9	14946.0	15415.6	17024.1	20926.6	22502.7	22378.6	17056.5
40°	16435.8	16505.9	16619.3	16381.8	16273.8	16792.0	18168.4	21768.6	23965.5	23916.9	18092.8
42.5°	17563.9	17499.1	17698.8	17499.1	17337.2	18071.3	19409.9	22351.6	25250.1	24850.7	19177.8
45°	19199.4	18994.2	19064.4	19080.6	18961.9	19231.7	19922.6	22772.6	26151.5	26108.3	19971.2
47.5°	20565.0	20570.4	20451.6	20359.8	19998.2	20268.1	20494.8	23037.1	27187.8	27117.7	20278.9
50°	21072.3	21002.2	21347.6	21547.3	21568.9	21018.4	20942.8	23182.8	27733.0	27425.3	20586.5
52.5°	19247.9	19312.7	19857.9	21045.3	21730.8	21790.2	21466.4	23485.1	27954.3	27889.5	20834.8
55°	15491.2	15804.3	16700.3	18071.3	19695.9	21482.6	22033.1	23798.1	28073.1	28019.1	21936.0
56°	13618.2	13861.1	15027.0	16101.1	18141.4	20365.2	21676.9	24132.8	28164.8	28418.5	22195.0
57.5°	10962.6	11243.3	12079.9	13299.8	15707.1	18238.6	20694.5	23722.6	27808.6	27905.7	22384.0
60°	6855.0	6882.0	7885.9	8690.2	10385.0	12857.1	15793.5	20640.5	25735.9	25595.5	20106.2
62.5°	4496.2	4501.6	5413.8	6072.3	6844.2	7410.9	9294.7	13688.4	18988.8	18740.6	14314.5
65°	3157.6	3227.8	3934.9	4814.7	5127.7	4830.9	4771.5	7216.6	10606.3	10250.1	7691.6
67.5°	2310.2	2315.6	2941.7	3886.3	4339.7	3675.8	2984.9	3524.7	4199.4	4188.6	3562.4
70°	1527.5	1592.3	2072.7	2903.9	3422.1	2952.5	2439.7	2520.7	2671.8	2671.8	2650.2
72.5°	890.6	950.0	1268.4	1840.6	1921.6	1846.0	1932.4	2159.1	2256.2	2250.8	2223.8
75°	507.4	534.4	604.5	766.5	955.4	1128.1	1419.6	1635.5	1732.6	1792.0	1721.8
77.5°	296.9	313.1	356.2	437.2	496.6	609.9	771.9	923.0	1052.5	1036.3	1047.1
80°	156.5	156.5	199.7	259.1	345.4	431.8	512.8	599.1	669.3	685.5	701.7
82.5°	91.8	97.2	129.5	188.9	248.3	307.7	394.0	453.4	518.2	523.6	534.4
85°	48.6	54.0	81.0	124.1	167.3	188.9	194.3	183.5	199.7	188.9	215.9
87.5°	16.2	16.2	27.0	21.6	21.6	27.0	32.4	32.4	43.2	43.2	43.2
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°	7966.9	7966.9	7966.9	7966.9	7966.9	7966.9	7966.9	7966.9	7966.9	7966.9	7966.9
2.5°	8010.1	8010.1	7918.3	7745.6	7718.6	7648.4	7583.7	7578.3	7529.7	7486.5	7464.9
5°	8161.2	7993.9	7858.9	7702.4	7518.9	7432.5	7335.4	7227.4	7184.2	7227.4	7222.0
7.5°	8333.9	8193.6	7788.8	7497.3	7286.8	7200.4	7092.5	6979.1	6989.9	6989.9	6914.4
10°	8501.3	8312.3	7664.6	7292.2	6984.5	6919.8	6860.4	6903.6	6957.5	6968.3	6919.8
12.5°	8781.9	8355.5	7605.3	7087.1	6892.8	6752.4	6790.2	6909.0	7022.3	6989.9	7027.7
15°	8992.4	8393.3	7335.4	6876.6	6633.7	6698.5	6833.4	6914.4	7103.3	7081.7	7119.5
17.5°	9197.6	8414.9	7070.9	6595.9	6493.3	6671.5	6774.0	7006.1	7065.5	7195.0	7243.6
20°	9618.6	8458.1	6801.0	6423.2	6390.8	6595.9	6774.0	6882.0	7011.5	7124.9	7124.9
22.5°	9834.5	8436.5	6622.9	6196.5	6299.0	6428.6	6590.5	6774.0	6774.0	6882.0	6887.4
25°	10104.4	8350.1	6342.2	6088.5	6164.1	6288.2	6471.8	6407.0	6477.2	6477.2	6563.5
27.5°	10412.0	8166.6	6099.3	5894.2	6045.3	6180.3	6207.3	6164.1	6083.1	6072.3	6039.9
30°	10660.3	7939.9	5921.2	5829.4	5953.6	6029.1	5942.8	5851.0	5710.7	5699.9	5624.3
32.5°	11000.4	7659.2	5699.9	5667.5	5807.8	5813.2	5786.3	5645.9	5440.8	5354.4	5268.1
35°	11572.5	7497.3	5532.6	5581.1	5624.3	5608.1	5559.6	5408.4	5203.3	5165.5	5133.1
37.5°	11993.5	7378.6	5359.8	5419.2	5457.0	5478.6	5332.9	5165.5	5170.9	5095.4	5073.8
40°	12468.5	7303.0	5219.5	5246.5	5251.9	5322.1	5143.9	5063.0	5100.8	5052.2	5084.6
42.5°	13078.4	7324.6	5073.8	5052.2	5154.7	5127.7	5041.4	4933.4	4955.0	4809.3	4830.9
45°	13402.3	7470.3	4987.4	4890.2	5003.6	4998.2	4884.9	4782.3	4652.8	4372.1	4382.9
47.5°	13618.2	7508.1	4782.3	4717.5	4836.3	4906.4	4776.9	4539.4	4355.9	4156.2	4107.6
50°	13839.5	7578.3	4685.1	4550.2	4598.8	4766.1	4604.2	4377.5	4199.4	4021.2	4048.2
52.5°	14033.8	7713.2	4496.2	4296.5	4382.9	4566.4	4480.0	4204.8	4010.4	3864.7	3821.5
55°	14897.4	8015.5	4177.8	3918.7	4123.8	4355.9	4307.3	3972.7	3762.1	3686.6	3675.8
56°	15032.4	8026.3	4010.4	3789.1	3978.1	4285.7	4226.3	3870.1	3681.2	3562.4	3567.8
57.5°	15054.0	7896.7	3772.9	3670.4	3832.3	4183.2	4107.6	3789.1	3530.0	3422.1	3389.7
60°	13245.8	6164.1	3476.1	3411.3	3600.2	3870.1	3843.1	3567.8	3276.4	3152.2	3211.6
62.5°	9030.2	4517.8	3244.0	3233.2	3330.3	3594.8	3524.7	3276.4	3033.5	2952.5	2914.7
65°	5257.3	3427.5	3017.3	2974.1	3055.1	3195.4	3244.0	2984.9	2731.2	2677.2	2661.0
67.5°	3103.6	2833.8	2725.8	2655.6	2628.6	2715.0	2752.8	2601.7	2348.0	2272.4	2337.2
70°	2596.3	2520.7	2526.1	2407.3	2342.6	2283.2	2250.8	2115.9	1905.4	1808.2	1781.2
72.5°	2240.0	2207.6	2186.0	2078.1	2018.7	1883.8	1743.4	1608.5	1452.0	1371.0	1376.4
75°	1711.0	1700.3	1711.0	1657.1	1554.5	1446.6	1317.0	1144.3	1025.5	923.0	944.6
77.5°	1020.2	1052.5	1068.7	1047.1	1004.0	906.8	825.8	712.5	599.1	518.2	507.4
80°	701.7	728.7	755.7	728.7	685.5	615.3	529.0	442.6	361.6	318.5	307.7
82.5°	534.4	561.4	577.5	550.6	496.6	421.0	361.6	302.3	237.5	194.3	183.5
85°	194.3	221.3	215.9	259.1	280.7	269.9	232.1	178.1	134.9	97.2	91.8
87.5°	54.0	48.6	54.0	54.0	54.0	48.6	43.2	43.2	43.2	27.0	21.6
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)