

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: P651395

Luminaire Tested: **GALN-SA5D-840-U-SL2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651395
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-840-U-SL2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27615.1 lumens
Efficiency: N/A
Efficacy: 89.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

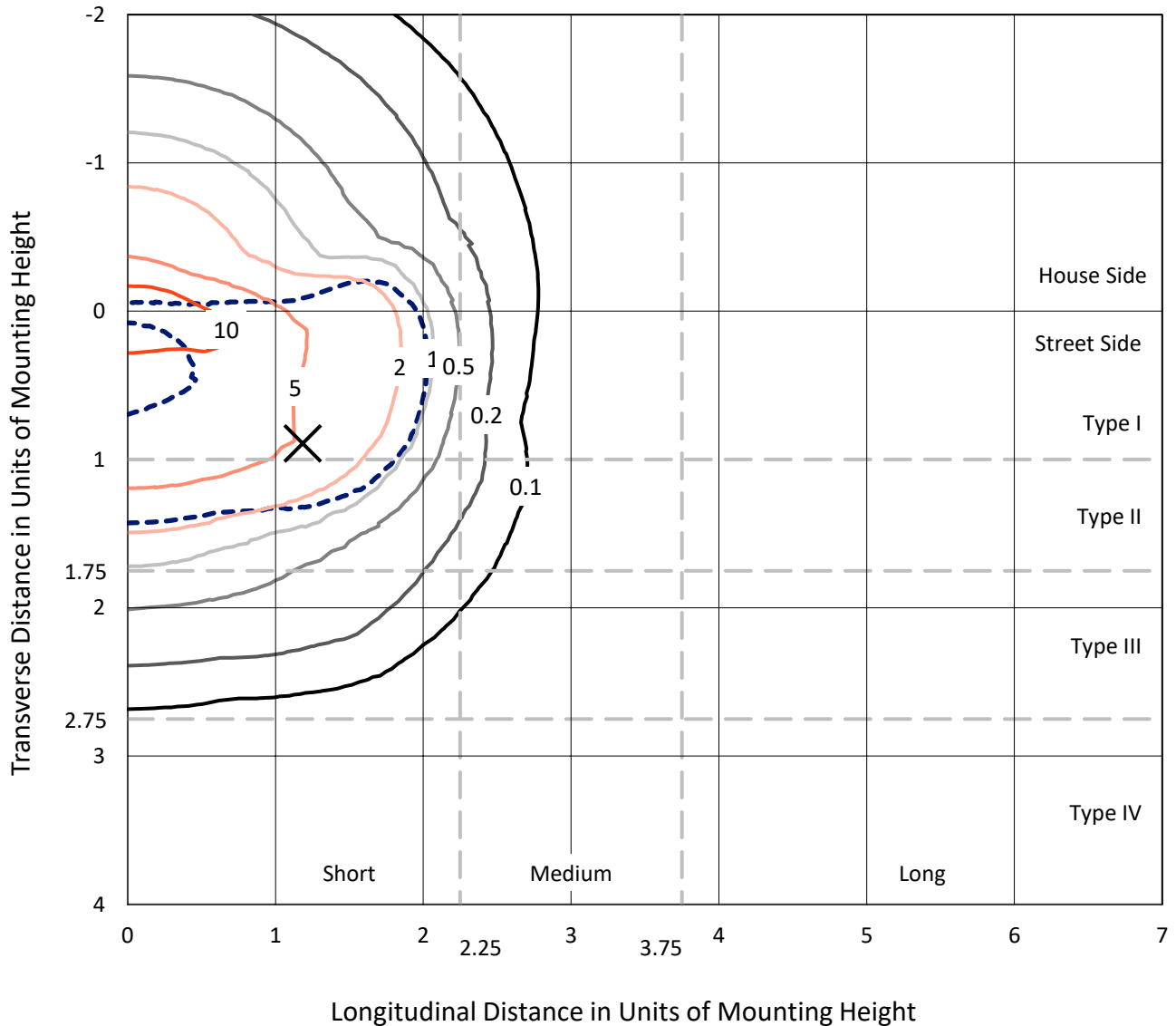
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

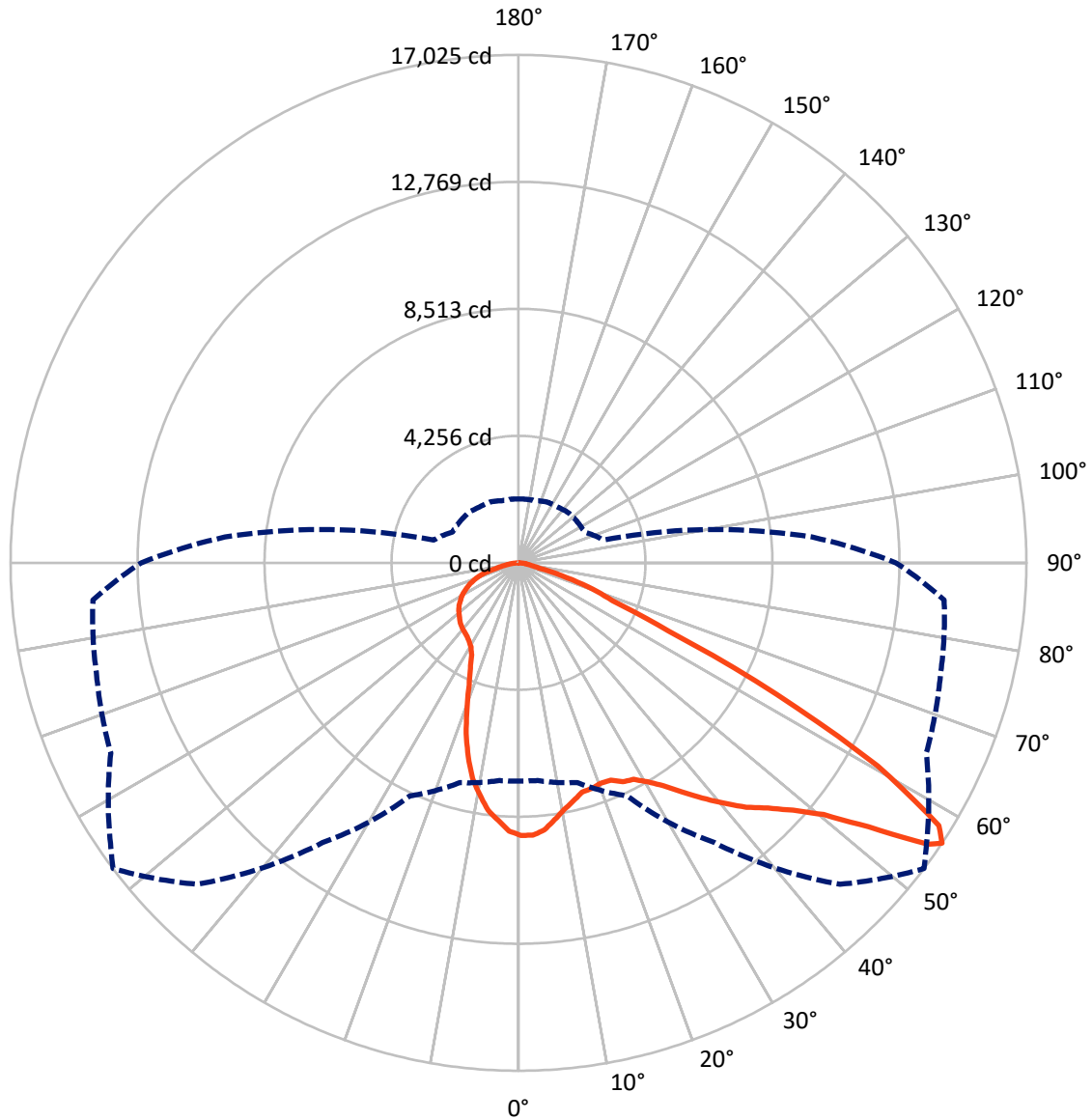
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8058.7	0.0	8058.7
	% Fixture	29.2	0.0	29.2
Street Side	Lumens	19556.4	0.0	19556.4
	% Fixture	70.8	0.0	70.8
Total	Lumens	27615.1	0.0	27615.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	808.8	2.9
10°-20°	2020.1	7.3
20°-30°	2978.8	10.8
30°-40°	4256.1	15.4
40°-50°	5857.9	21.2
50°-60°	6922.4	25.1
60°-70°	3689.2	13.4
70°-80°	935.9	3.4
80°-90°	145.9	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°	27615.1	100.0
0°-180°	27615.1	100.0

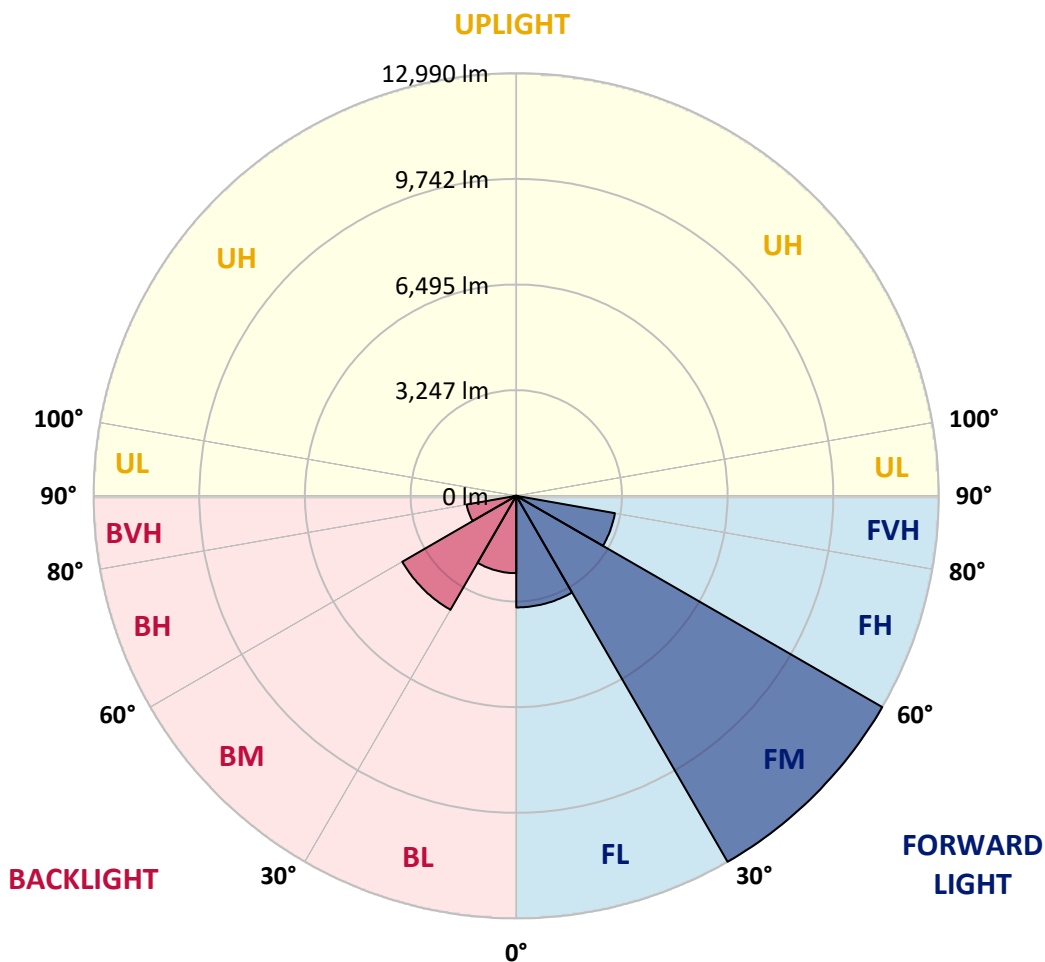


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3430.8	12.4			
FM (30°-60°)	12989.6	47.0			
FH (60°-80°)	3077.4	11.1			G2/5000
FVH (80°-90°)	58.7	0.2			G1/100
BL (0°-30°)	2376.8	8.6	B3/2500		
BM (30°-60°)	4046.8	14.7	B3/5000		
BH (60°-80°)	1547.8	5.6	B3/2500		G3/2500
BVH (80°-90°)	87.3	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°	53°	55°	65°	75°	85°
0°	9136.1	9136.1	9136.1	9136.1	9136.1	9136.1	9136.1	9136.1	9136.1	9136.1	9136.1
2.5°	9022.8	8944.9	8990.9	8973.2	9118.5	9160.9	9139.7	9157.4	9238.9	9200.0	9118.5
5°	8431.2	8541.0	8562.3	8615.4	8700.4	8866.9	8998.0	9033.4	9072.4	9253.0	9235.4
7.5°	7892.7	7967.1	7928.2	8084.0	8268.2	8537.5	8696.9	8725.2	9083.1	9182.2	9256.6
10°	7552.7	7478.3	7655.4	7697.9	7906.9	8215.1	8406.4	8523.3	8849.2	9242.4	9288.5
12.5°	7237.4	7212.6	7318.8	7439.3	7673.1	7991.9	8186.8	8232.8	8735.9	9150.3	9366.4
15°	7003.6	6975.3	7081.5	7170.0	7442.8	7726.3	7974.2	8105.3	8611.8	9097.2	9299.1
17.5°	6819.3	6815.8	6876.0	7035.5	7315.3	7552.7	7952.9	7960.1	8548.1	9178.7	9355.8
20°	6808.7	6805.2	6815.8	6992.9	7248.0	7538.5	7885.6	7949.4	8548.1	9122.0	9359.3
22.5°	6897.3	6840.6	6904.4	7017.7	7201.9	7563.3	7910.4	8052.2	8753.5	9401.9	9518.8
25°	7039.0	7053.1	7088.6	7127.6	7233.9	7620.0	8130.1	8247.0	8994.5	9642.7	9738.4
27.5°	7297.6	7290.5	7304.7	7326.0	7418.0	7673.1	8218.7	8519.8	9497.5	10071.4	9975.8
30°	7676.6	7651.8	7708.5	7783.0	7697.9	7843.2	8512.7	8739.4	9965.1	10503.6	10241.4
32.5°	8020.3	8112.4	8218.7	8250.5	8147.8	8176.1	8902.3	9132.6	10354.8	11034.9	10567.3
35°	8448.9	8523.3	8665.0	8764.2	8746.5	8661.5	9433.7	9738.4	10918.0	11424.6	10911.0
37.5°	8866.9	8955.5	9189.3	9483.3	9320.4	9281.4	10000.5	10252.0	11091.6	11633.6	11162.5
40°	9540.0	9536.4	9940.3	10092.7	10237.9	10170.5	10588.6	10673.6	11183.7	11587.6	11169.6
42.5°	10330.0	10280.4	10691.3	10928.7	11116.4	11123.5	11201.4	11173.1	11226.3	11353.8	11095.1
45°	11081.0	11187.2	11601.8	12026.9	12214.6	12235.9	11718.7	11665.5	11300.6	11286.5	10953.4
47.5°	11998.5	12023.3	12363.4	12923.1	13358.9	13210.1	12388.2	12271.3	11626.6	11736.3	11190.9
50°	12051.6	12235.9	12540.5	13199.4	14538.5	14499.5	13256.1	13036.5	12150.9	12374.1	11853.3
52.5°	10939.3	10896.8	11258.1	12335.0	14449.9	15782.0	14694.4	14170.1	13277.4	13107.3	12926.7
55°	8335.6	8434.7	8753.5	9841.1	12547.6	15799.6	16653.4	16224.7	14481.9	14191.4	13982.3
56°	7311.7	7326.0	7627.0	8619.0	11449.5	15236.4	17025.4	16678.2	15080.5	14637.7	14318.9
57.5°	6061.3	5979.8	6135.7	6677.6	9664.0	14046.0	16618.0	16958.0	15782.0	15119.5	14676.6
60°	4771.7	4754.1	4690.3	4789.5	6107.3	10581.5	13833.5	14598.8	15711.1	14666.0	14056.7
62.5°	3896.8	3808.2	3935.7	4077.4	4243.9	6564.3	9720.7	10170.5	12473.2	11708.1	10560.3
65°	3021.8	2979.2	3138.7	3599.2	3698.4	4169.5	5537.0	5884.1	7364.9	7233.9	6369.5
67.5°	2079.5	2086.5	2224.7	2926.1	3429.2	3386.6	3390.2	3570.9	3843.6	2855.3	2486.8
70°	1317.8	1314.3	1388.7	1884.6	2759.7	2788.0	2646.3	2593.1	2458.5	1487.9	1576.5
72.5°	846.6	821.8	860.8	1041.5	1427.6	1650.8	1700.4	1732.3	1424.1	1169.0	1268.2
75°	478.3	453.5	439.3	485.3	563.3	651.9	715.6	736.9	825.4	885.7	938.8
77.5°	145.2	131.1	159.5	212.5	279.9	375.5	457.0	471.1	556.2	627.0	680.2
80°	63.7	70.8	99.2	141.7	198.4	265.7	322.4	343.6	400.3	453.5	467.6
82.5°	38.9	42.5	67.3	95.6	138.2	187.8	230.3	237.3	294.0	336.6	347.2
85°	14.1	17.7	35.4	56.7	88.6	120.4	120.4	131.1	120.4	120.4	131.1
87.5°	0.0	0.0	3.5	7.1	7.1	10.6	14.1	14.1	17.7	21.3	24.8
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°	9136.1	9136.1	9136.1	9136.1	9136.1	9136.1	9136.1	9136.1	9136.1	9136.1	9136.1
2.5°	9160.9	9143.3	9114.9	9012.2	9001.6	8969.7	8792.6	8764.2	8792.6	8707.5	8714.6
5°	9143.3	9196.4	8983.8	8881.1	8689.8	8551.6	8392.3	8310.8	8165.5	8073.4	8176.1
7.5°	9221.1	9200.0	8934.2	8711.1	8424.1	8073.4	7793.5	7634.1	7379.1	7308.2	7361.4
10°	9192.8	9079.4	8767.8	8473.7	7931.7	7623.5	7170.0	6730.8	6489.9	6365.9	6348.2
12.5°	9153.9	9122.0	8601.2	8094.6	7524.3	6876.0	6238.4	5823.9	5430.7	5260.6	5285.4
15°	9200.0	8930.7	8289.5	7648.3	6890.2	6040.0	5352.7	4817.8	4545.0	4435.3	4435.3
17.5°	9178.7	8838.6	8140.7	7148.8	6188.8	5182.7	4428.1	4105.8	3992.4	3992.4	4024.3
20°	9189.3	8898.8	7839.6	6649.3	5359.9	4364.4	3815.3	3698.4	3748.0	3765.7	3783.4
22.5°	9249.5	8700.4	7545.5	6100.2	4591.1	3733.8	3464.6	3468.1	3556.7	3652.3	3634.6
25°	9323.9	8622.5	7187.8	5554.6	4003.1	3425.6	3340.6	3329.9	3397.3	3446.8	3454.0
27.5°	9260.2	8487.9	6822.9	4874.5	3521.3	3220.2	3202.4	3209.5	3230.8	3329.9	3298.1
30°	9469.2	8526.8	6365.9	4304.2	3255.6	3152.8	3131.5	3121.0	3152.8	3181.2	3156.4
32.5°	9727.8	8388.7	6025.8	3755.1	3124.5	3103.2	3060.7	3046.6	3064.3	3035.9	3050.1
35°	9841.1	8363.9	5583.0	3361.8	3021.8	3004.1	2979.2	2975.7	2979.2	2954.4	2933.2
37.5°	9904.9	8480.8	5076.4	3181.2	2958.0	2975.7	2919.0	2912.0	2848.2	2862.3	2873.0
40°	10014.7	8300.1	4665.5	3007.6	2919.0	2883.6	2834.0	2823.4	2780.9	2756.0	2780.9
42.5°	9855.3	8247.0	4261.7	2933.2	2862.3	2823.4	2788.0	2727.7	2713.6	2692.3	2678.2
45°	9727.8	7942.3	3900.3	2841.1	2795.1	2773.8	2706.5	2642.8	2589.6	2610.8	2578.9
47.5°	9823.4	7836.0	3542.5	2763.2	2703.0	2678.2	2610.8	2561.3	2508.1	2483.3	2476.2
50°	10206.0	8034.4	3241.4	2706.5	2625.0	2610.8	2522.2	2465.6	2416.0	2398.3	2405.3
52.5°	11120.0	8576.4	3035.9	2589.6	2550.6	2486.8	2437.2	2366.4	2334.5	2277.8	2313.3
55°	12278.3	9458.6	2982.8	2479.8	2458.5	2401.8	2334.5	2281.4	2221.2	2175.1	2164.5
56°	12650.3	9880.1	2940.3	2437.2	2401.8	2369.9	2281.4	2249.5	2153.9	2143.2	2136.1
57.5°	12951.5	10252.0	2947.4	2355.8	2320.3	2292.0	2238.9	2160.9	2097.2	2058.2	2075.9
60°	12271.3	9596.7	2812.7	2231.8	2224.7	2171.5	2097.2	2061.7	1983.8	1937.7	1927.2
62.5°	9122.0	6514.7	2281.4	2072.4	2068.9	2012.2	1927.2	1888.1	1874.0	1810.3	1810.3
65°	5253.6	4084.5	1973.2	1941.3	1912.9	1856.3	1771.2	1739.4	1704.0	1682.7	1665.0
67.5°	2242.4	2118.4	1792.5	1789.0	1757.1	1686.2	1601.2	1551.6	1505.6	1463.1	1484.3
70°	1626.0	1650.8	1618.9	1601.2	1562.2	1473.7	1399.3	1339.0	1268.2	1239.9	1261.2
72.5°	1289.5	1342.7	1388.7	1392.2	1346.2	1243.4	1161.9	1080.4	1002.6	963.5	981.3
75°	977.7	1013.2	1059.2	1069.8	1002.6	931.7	853.8	768.8	708.5	662.5	669.5
77.5°	704.9	697.9	740.4	733.3	701.4	651.9	581.0	503.0	435.7	393.3	396.8
80°	481.8	492.4	517.2	513.7	474.7	442.8	389.6	325.9	276.4	240.9	233.8
82.5°	336.6	354.2	375.5	357.8	325.9	294.0	255.1	209.0	170.1	141.7	134.6
85°	120.4	138.2	159.5	170.1	180.6	173.6	145.2	116.9	85.0	70.8	67.3
87.5°	24.8	28.3	31.9	31.9	31.9	28.3	24.8	24.8	21.3	10.6	10.6
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)