

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: P530664

Luminaire Tested: **GALN-SA5D-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530664
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5D-827-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24861 lumens
Efficiency: N/A
Efficacy: 80.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

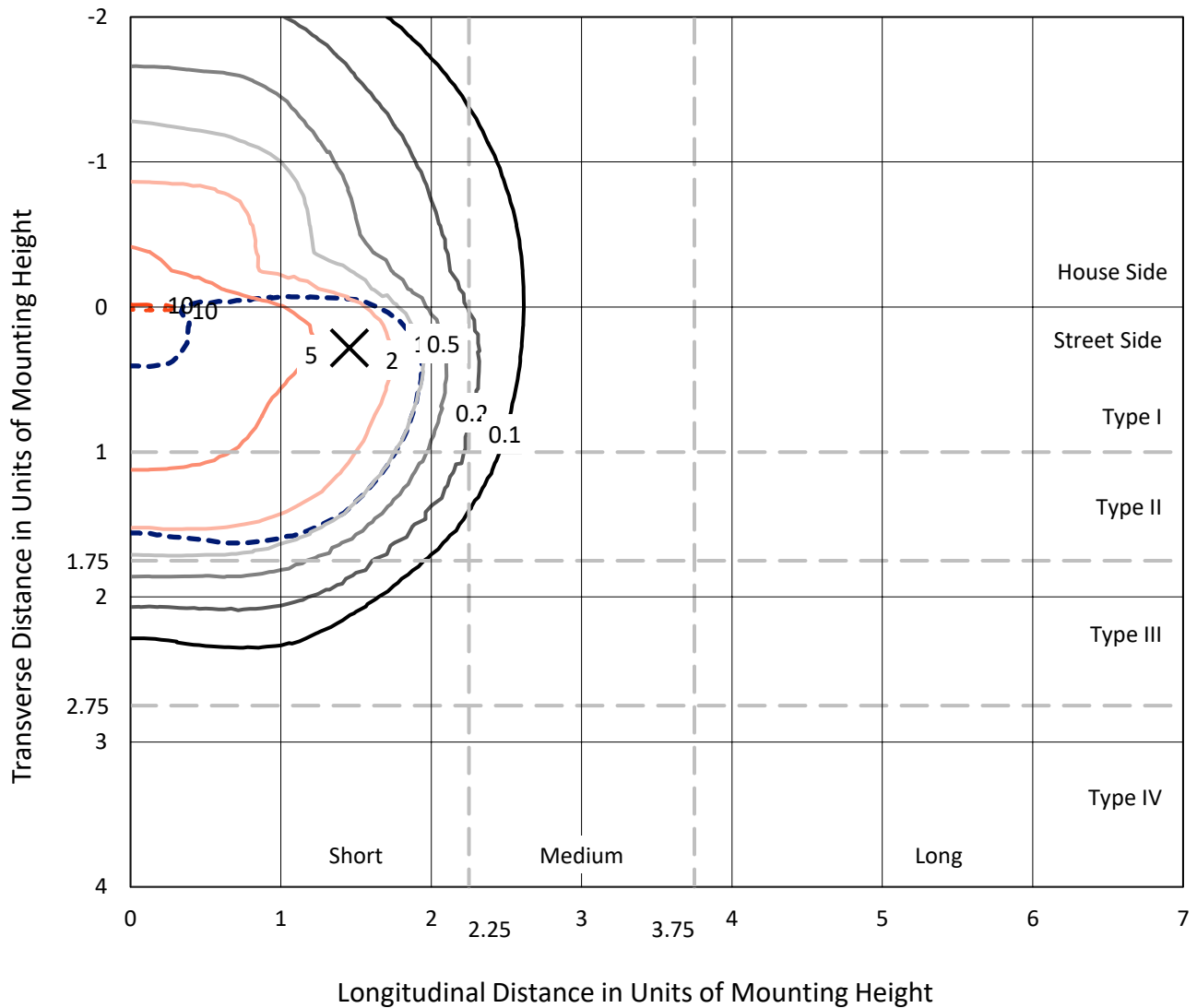
Input Watts (W): 309
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

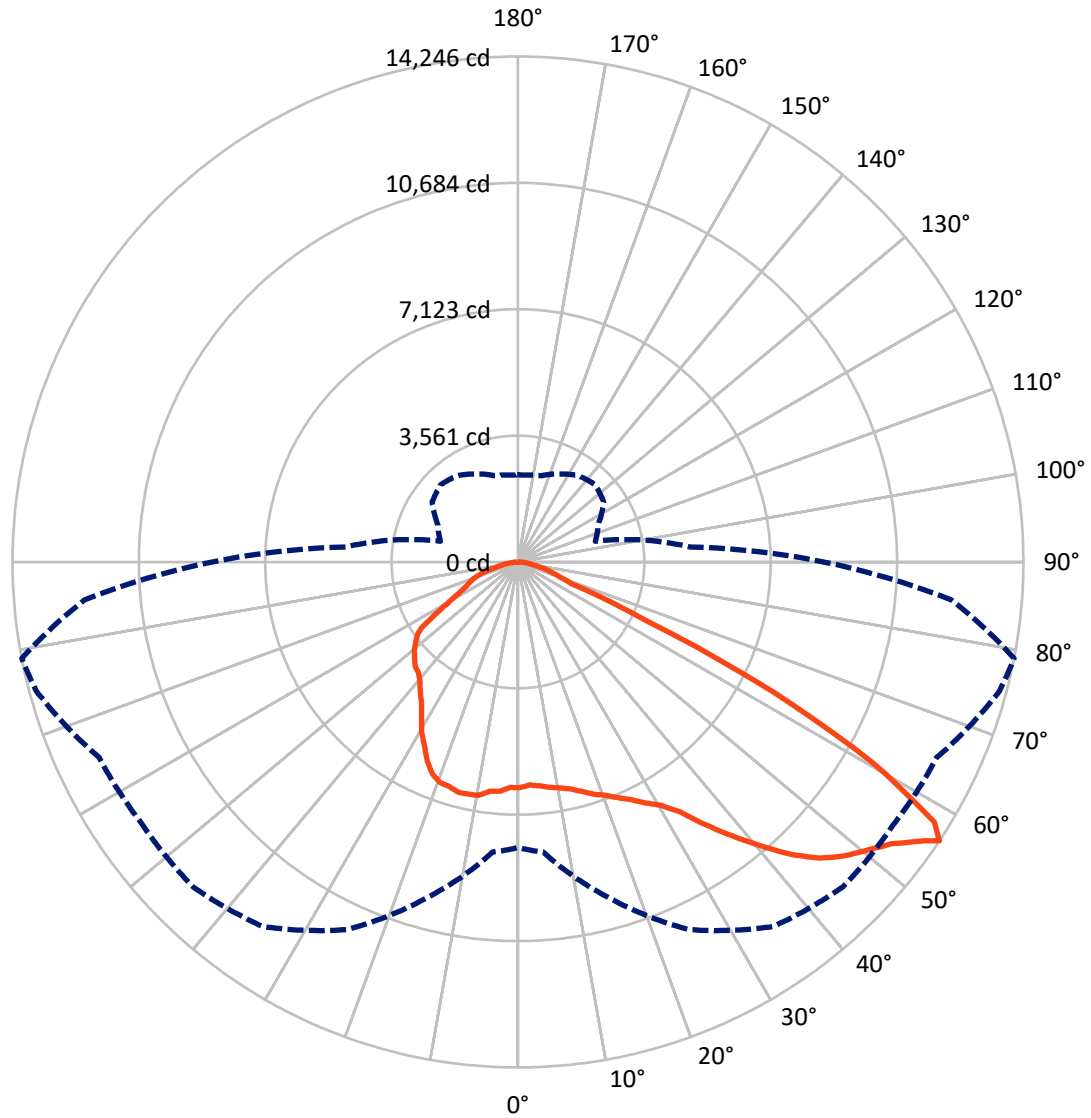
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7342.0	0.0	7342.0
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	17519.0	0.0	17519.0
	% Fixture	70.5	0.0	70.5
Total	Lumens	24861.0	0.0	24861.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	578.3	2.3
10°-20°	1582.7	6.4
20°-30°	2707.7	10.9
30°-40°	4150.0	16.7
40°-50°	5608.6	22.6
50°-60°	6441.7	25.9
60°-70°	2936.3	11.8
70°-80°	723.9	2.9
80°-90°	131.6	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°	24861.0	100.0
0°-180°	24861.0	100.0

Coefficient of Utilization

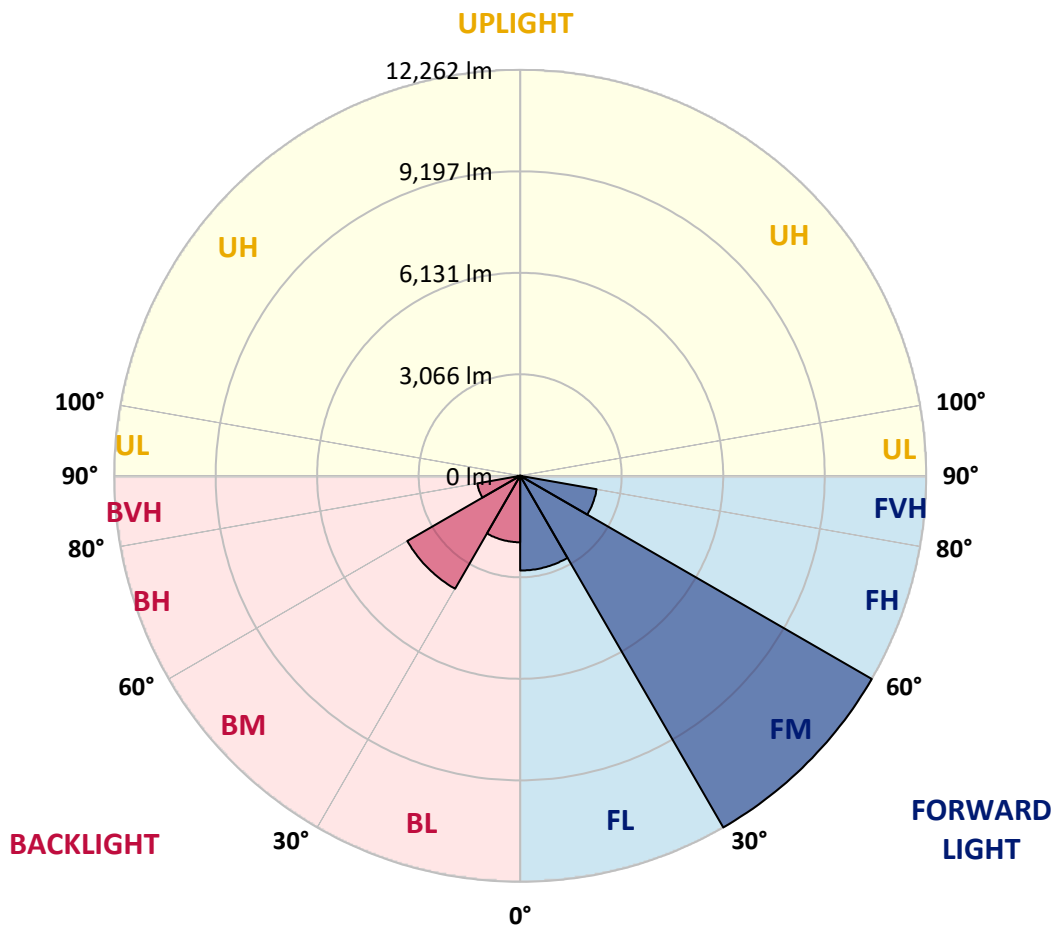


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2860.5	11.5			
FM (30°-60°)	12262.2	49.3			
FH (60°-80°)	2343.8	9.4			G2/5000
FVH (80°-90°)	52.5	0.2			G1/100
BL (0°-30°)	2008.4	8.1	B3/2500		
BM (30°-60°)	3938.1	15.8	B3/5000		
BH (60°-80°)	1316.4	5.3	B3/2500		G3/2500
BVH (80°-90°)	79.0	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°	79°	85°
0°	6360.9	6360.9	6360.9	6360.9	6360.9	6360.9	6360.9	6360.9	6360.9	6360.9	6360.9
2.5°	6051.3	6035.8	6072.9	6100.8	6134.9	6178.2	6199.9	6212.3	6320.7	6292.8	6376.4
5°	5921.2	5880.9	5908.8	5930.5	5989.3	6042.0	6100.8	6193.7	6292.8	6336.2	6438.4
7.5°	5806.6	5784.9	5778.7	5794.2	5874.7	5942.9	6045.1	6181.3	6342.4	6413.6	6472.4
10°	5617.7	5586.7	5633.2	5735.4	5757.1	5899.5	6017.2	6212.3	6351.7	6475.5	6649.0
12.5°	5534.1	5503.1	5512.4	5571.2	5723.0	5859.3	5998.6	6218.5	6512.7	6562.2	6794.5
15°	5667.2	5636.3	5645.6	5630.1	5775.6	5846.9	6066.7	6342.4	6624.2	6707.8	6955.5
17.5°	5970.7	5973.8	5933.6	5899.5	5865.4	6017.2	6168.9	6416.7	6667.5	6878.1	7063.9
20°	6549.9	6447.7	6367.1	6175.1	6122.5	6187.5	6379.5	6618.0	6844.1	7017.5	7228.1
22.5°	6995.8	7005.1	6890.5	6574.6	6460.0	6487.9	6652.1	6847.2	7094.9	7218.8	7460.3
25°	7643.0	7578.0	7454.1	7203.3	6946.3	6967.9	7088.7	7265.2	7333.4	7420.1	7683.3
27.5°	8234.5	8253.1	8008.5	7773.1	7454.1	7392.2	7609.0	7639.9	7525.4	7689.5	7779.3
30°	8835.3	8819.9	8658.8	8383.2	8070.4	8082.8	8178.8	8027.1	7869.1	7958.9	8020.9
32.5°	9457.8	9281.3	9275.1	9027.3	8788.9	8674.3	8556.6	8630.9	8386.3	8404.9	8346.0
35°	9956.4	9981.2	9838.7	9662.2	9544.5	9343.2	9021.1	9154.3	9107.9	9086.2	8832.2
37.5°	10318.7	10222.7	10294.0	10235.1	10123.6	9872.8	9538.3	9665.3	9687.0	9792.3	9498.1
40°	10616.0	10575.8	10764.7	10795.6	10718.2	10176.3	9575.5	9953.3	10278.5	10507.6	10157.7
42.5°	10758.5	10845.2	11043.4	11281.9	11108.4	10529.3	9767.5	10173.2	10897.8	11260.2	10783.3
45°	10950.5	10839.0	11133.2	11569.9	11573.0	10826.6	9953.3	10470.5	11381.0	11907.4	11210.6
47.5°	10755.4	10811.1	11114.6	11669.0	11811.4	11139.4	10455.0	10891.6	11913.6	12381.2	11607.0
50°	10318.7	10430.2	10984.6	11560.6	11991.0	11470.8	11031.0	11346.9	12406.0	12762.1	11672.1
52.5°	9863.5	9925.4	10792.5	11644.2	12071.6	11898.1	11802.1	11975.5	13006.8	13192.6	11752.6
55°	8624.7	8918.9	10157.7	11607.0	12464.9	12669.2	12594.9	12848.9	13688.1	13873.9	12192.3
56°	8051.8	8206.7	9776.8	11433.6	12542.3	12951.1	12913.9	13028.5	14050.4	14245.5	12260.5
57.5°	6992.7	7005.1	8336.7	10665.6	12251.2	13034.7	12997.5	13087.3	13979.2	13846.1	11662.8
60°	4375.9	4567.9	5673.4	8203.6	10417.8	12093.2	12303.8	11582.2	11786.6	11504.8	9073.8
62.5°	2266.9	2239.0	2973.0	4797.0	6915.3	8658.8	8853.9	8819.9	8504.0	8092.1	5927.4
65°	1130.4	1136.5	1554.6	2375.3	3542.8	4533.8	5078.8	5137.7	4298.4	3954.7	2811.9
67.5°	820.7	851.6	1118.0	1452.4	1669.2	1867.4	2288.6	2245.2	1700.2	1616.6	1498.9
70°	638.0	665.8	907.4	1108.7	1006.5	1006.5	1096.3	1133.4	1210.9	1244.9	1285.2
72.5°	464.5	486.2	693.7	764.9	659.6	709.2	820.7	907.4	987.9	1000.3	1046.7
75°	319.0	337.6	455.2	421.2	396.4	489.3	600.8	681.3	740.1	771.1	799.0
77.5°	207.5	213.7	260.1	219.9	253.9	315.9	390.2	458.3	517.2	542.0	548.1
80°	92.9	102.2	111.5	139.4	176.5	226.1	278.7	334.5	371.6	380.9	399.5
82.5°	52.6	52.6	68.1	99.1	130.1	164.1	201.3	241.6	284.9	294.2	291.1
85°	27.9	27.9	40.3	58.8	80.5	96.0	92.9	96.0	102.2	117.7	114.6
87.5°	9.3	9.3	12.4	12.4	15.5	18.6	15.5	21.7	27.9	27.9	27.9
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°	6360.9	6360.9	6360.9	6360.9	6360.9	6360.9	6360.9	6360.9	6360.9	6360.9	6360.9
2.5°	6351.7	6379.5	6342.4	6422.9	6422.9	6407.4	6330.0	6354.8	6373.3	6373.3	6388.8
5°	6472.4	6463.1	6487.9	6391.9	6333.1	6311.4	6184.4	6122.5	6069.8	6066.7	6020.3
7.5°	6540.6	6515.8	6506.5	6435.3	6175.1	6017.2	5744.7	5586.7	5552.7	5431.9	5478.3
10°	6649.0	6695.4	6649.0	6261.8	5899.5	5537.2	5270.9	5026.2	4930.2	4852.8	4806.3
12.5°	6871.9	6850.2	6580.8	6057.5	5549.6	5119.1	4722.7	4465.7	4369.7	4301.5	4295.3
15°	7060.8	6952.4	6540.6	5735.4	5004.5	4546.2	4221.0	4038.3	3994.9	4001.1	4029.0
17.5°	7125.9	7051.5	6330.0	5400.9	4598.8	4060.0	3908.2	3880.4	3920.6	3967.1	3979.5
20°	7228.1	7110.4	6243.3	4945.7	4097.1	3756.5	3747.2	3846.3	3920.6	3988.8	3998.0
22.5°	7441.7	7144.5	5961.5	4515.2	3753.4	3666.7	3756.5	3840.1	3954.7	4010.4	3960.9
25°	7503.7	7070.1	5565.1	3998.0	3536.6	3610.9	3706.9	3821.5	3902.0	3933.0	3954.7
27.5°	7556.3	6955.5	5029.3	3654.3	3468.5	3607.8	3706.9	3802.9	3846.3	3874.2	3898.9
30°	7705.0	6921.5	4564.8	3425.1	3425.1	3545.9	3672.9	3697.6	3756.5	3790.6	3833.9
32.5°	7779.3	6686.1	4087.9	3279.6	3381.8	3576.9	3586.2	3632.6	3635.7	3663.6	3617.1
35°	7974.4	6518.9	3645.0	3174.3	3400.3	3545.9	3592.4	3564.5	3412.7	3338.4	3353.9
37.5°	8116.9	6435.3	3326.0	3161.9	3403.4	3580.0	3604.7	3394.2	3236.2	3112.3	3143.3
40°	8500.9	6227.8	3084.5	3140.2	3431.3	3617.1	3549.0	3319.8	3034.9	2907.9	2886.3
42.5°	8795.1	6079.1	2932.7	3115.4	3453.0	3669.8	3521.1	3171.2	2880.1	2762.4	2793.4
45°	9135.7	6045.1	2852.2	3121.6	3490.2	3697.6	3487.1	3056.6	2746.9	2700.5	2691.2
47.5°	9256.5	5800.4	2765.5	3069.0	3480.9	3688.4	3372.5	2969.9	2697.4	2703.6	2728.3
50°	9055.2	5549.6	2700.5	2960.6	3418.9	3604.7	3192.9	2855.3	2669.5	2746.9	2790.3
52.5°	8798.2	5292.5	2567.3	2815.0	3292.0	3474.7	3109.2	2849.1	2641.6	2616.8	2626.1
55°	8875.6	5081.9	2381.5	2616.8	3087.6	3233.1	3016.3	2790.3	2573.5	2480.6	2511.6
56°	8624.7	4865.2	2260.7	2493.0	2948.2	3078.3	2969.9	2737.6	2517.7	2455.8	2455.8
57.5°	7915.6	4137.4	2102.8	2294.8	2654.0	2808.8	2880.1	2706.7	2455.8	2347.4	2350.5
60°	5837.6	2942.0	1886.0	2022.2	2198.8	2322.6	2654.0	2619.9	2301.0	2226.6	2198.8
62.5°	3598.5	2149.2	1731.1	1783.8	1873.6	1975.8	2316.4	2372.2	2136.8	2056.3	2037.7
65°	2016.1	1644.4	1613.5	1635.1	1678.5	1731.1	1923.1	2047.0	1886.0	1762.1	1755.9
67.5°	1474.1	1471.0	1495.8	1514.4	1532.9	1532.9	1579.4	1628.9	1607.3	1508.2	1498.9
70°	1310.0	1319.3	1337.8	1340.9	1347.1	1325.5	1288.3	1272.8	1297.6	1235.6	1223.3
72.5°	1080.8	1111.8	1133.4	1136.5	1102.5	1074.6	1025.1	972.4	953.8	941.4	938.3
75°	830.0	851.6	860.9	857.8	845.4	805.2	746.3	693.7	659.6	622.5	641.0
77.5°	560.5	591.5	607.0	607.0	588.4	526.5	498.6	458.3	424.3	384.0	390.2
80°	393.3	415.0	439.8	436.7	405.7	374.7	334.5	297.3	269.4	238.5	235.4
82.5°	294.2	306.6	319.0	312.8	291.1	260.1	232.3	198.2	167.2	145.6	145.6
85°	105.3	114.6	139.4	145.6	157.9	157.9	133.2	111.5	89.8	74.3	74.3
87.5°	31.0	31.0	34.1	34.1	31.0	34.1	27.9	31.0	34.1	21.7	21.7
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)