

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: P534401

Luminaire Tested: **GALN-SA9D-827-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534401
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9D-827-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30411 lumens
Efficiency: N/A
Efficacy: 55.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

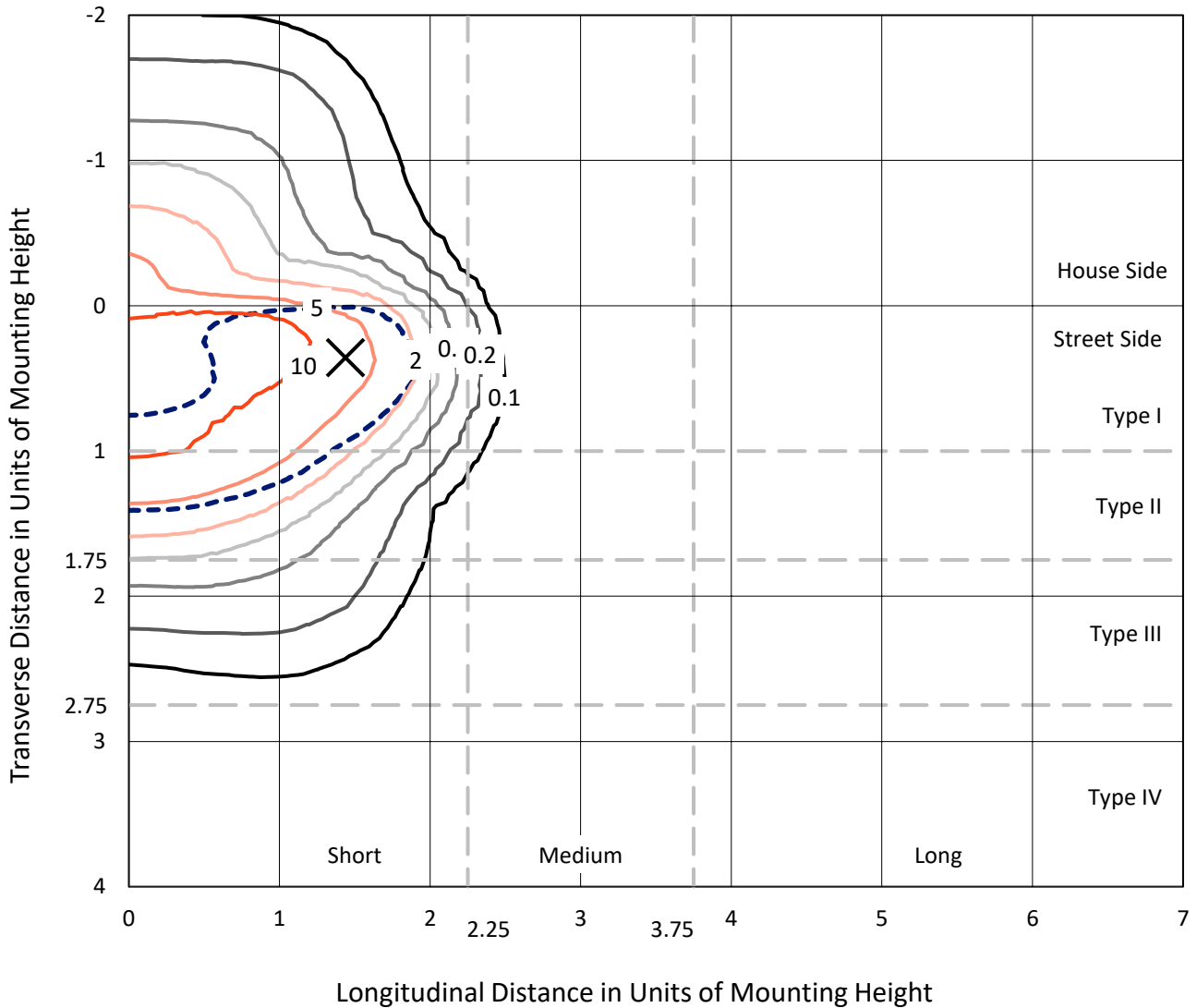
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

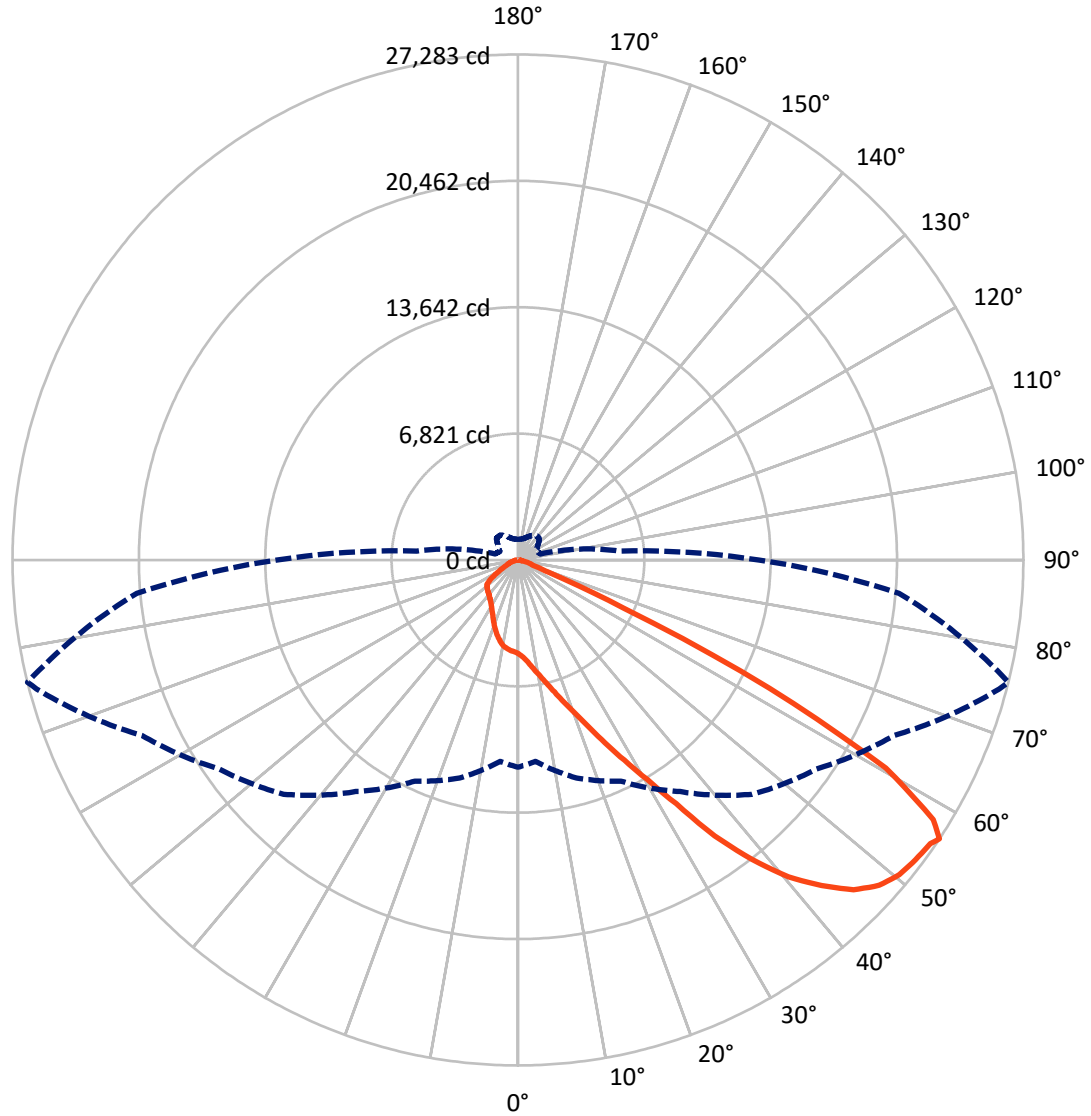
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 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	4777.4	0.0	4777.4
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	25633.6	0.0	25633.6
	% Fixture	84.3	0.0	84.3
Total	Lumens	30411.0	0.0	30411.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	509.9	1.7
10°-20°	1638.2	5.4
20°-30°	2970.5	9.8
30°-40°	5122.7	16.8
40°-50°	8322.0	27.4
50°-60°	8771.7	28.8
60°-70°	2680.1	8.8
70°-80°	343.6	1.1
80°-90°	52.2	0.2
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°	30411.0	100.0
0°-180°	30411.0	100.0

Coefficient of Utilization



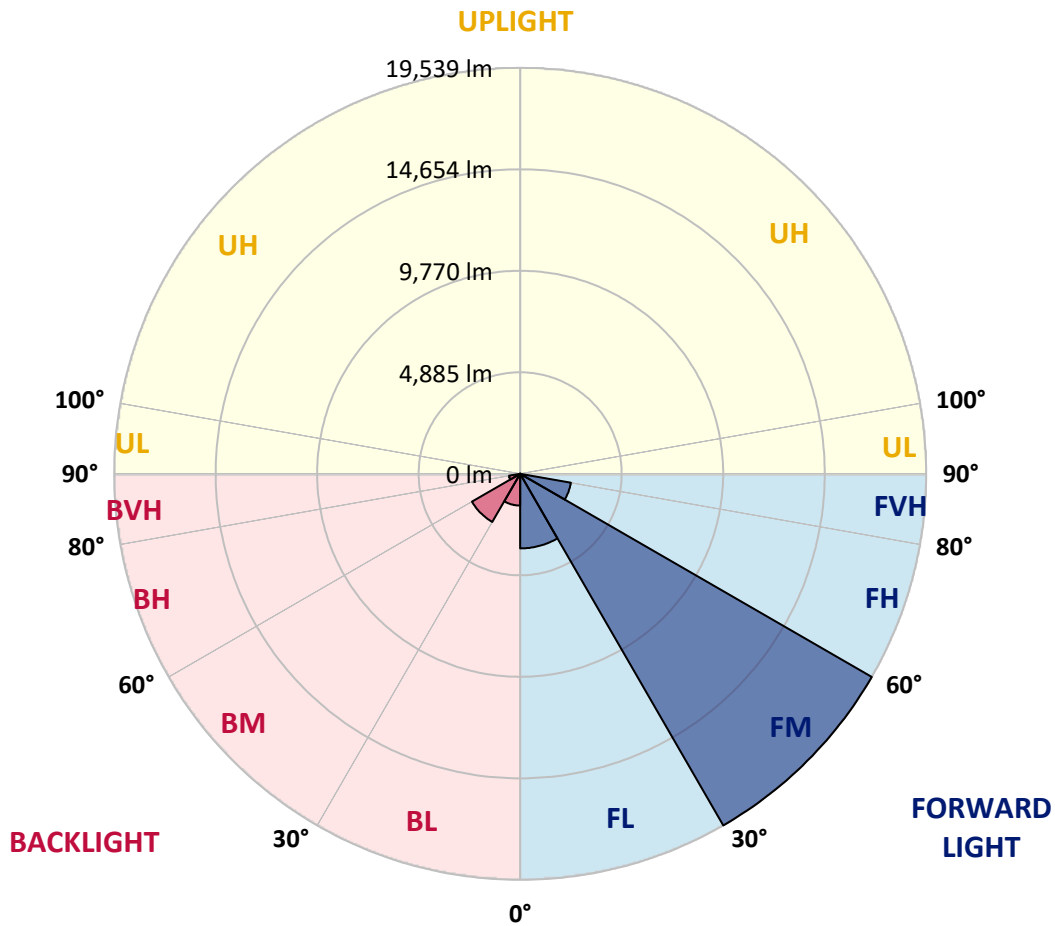
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3590.3	11.8			
FM (30°-60°)	19539.0	64.2			
FH (60°-80°)	2478.7	8.2			G2/5000
FVH (80°-90°)	25.6	0.1			G1/100
BL (0°-30°)	1528.3	5.0	B3/2500		
BM (30°-60°)	2677.5	8.8	B3/5000		
BH (60°-80°)	545.0	1.8	B2/1000		G2/1000
BVH (80°-90°)	26.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5062.0	5062.0	5062.0	5062.0	5062.0	5062.0	5062.0	5062.0	5062.0	5062.0	5062.0
2.5°	5829.9	5695.4	5701.0	5689.8	5673.0	5611.3	5426.3	5398.3	5275.0	5241.3	5129.2
5°	6530.7	6412.9	6480.2	6379.3	6284.0	6227.9	5925.2	5785.1	5588.9	5516.0	5359.1
7.5°	6967.9	6911.8	6889.4	6895.0	6805.3	6665.2	6530.7	6222.3	5958.9	5902.8	5572.1
10°	7180.9	7147.3	7180.9	7164.1	7203.3	7220.2	6984.7	6799.7	6412.9	6317.6	5801.9
12.5°	7231.4	7298.6	7326.7	7399.5	7494.8	7657.4	7640.6	7388.3	6872.6	6810.9	6155.1
15°	7354.7	7410.7	7382.7	7500.4	7679.8	7954.5	8100.3	8061.0	7506.0	7393.9	6564.3
17.5°	7466.8	7365.9	7461.2	7696.6	7876.0	8296.5	8649.6	8812.2	8195.5	8066.6	6939.9
20°	7618.2	7590.1	7573.3	7691.0	8010.6	8571.1	9271.8	9568.9	8969.1	8834.6	7478.0
22.5°	8077.8	8083.4	8072.2	7898.4	8128.3	8761.7	9815.6	10549.9	9894.1	9782.0	8089.0
25°	8683.2	8610.4	8554.3	8414.2	8386.1	8935.5	10365.0	11749.6	11004.0	10925.5	8750.5
27.5°	9322.3	9322.3	9154.1	9025.2	8845.8	9367.1	10869.5	12915.6	12343.8	12237.3	9327.9
30°	10017.4	10056.6	10034.2	9759.5	9647.4	9838.0	11385.2	14406.7	13879.7	13745.2	10280.9
32.5°	11043.2	10959.2	11054.5	10824.6	10493.9	10662.1	12198.0	15740.8	15875.4	15684.8	11530.9
35°	12399.8	12349.4	12287.7	11912.1	11519.7	11654.3	13347.2	17383.3	18381.1	18285.8	12792.2
37.5°	13616.3	13588.2	13537.8	13279.9	12825.9	12988.4	14653.3	19093.1	20825.2	20511.3	14574.8
40°	14894.4	15045.7	14883.2	14653.3	14238.5	14597.3	16189.3	20107.7	22882.5	22501.3	15937.0
42.5°	16626.5	16508.8	16581.7	16161.3	15937.0	16329.4	17730.9	21122.3	24480.1	24026.1	17383.3
45°	18470.8	18476.4	18280.2	18145.7	17562.7	17988.7	18678.2	21682.9	25752.6	25399.5	18476.4
47.5°	19653.6	19648.0	19861.0	20074.0	19474.2	19053.8	19322.9	22215.4	26408.5	26245.9	18874.4
50°	19468.6	19524.7	19799.4	20595.4	20909.3	20343.1	19928.3	22058.5	26705.6	26688.8	19216.4
52.5°	16934.9	17119.8	17579.5	18728.7	20309.5	21010.2	20561.7	22350.0	26851.4	26879.4	19726.5
55°	12893.1	12994.0	13868.5	15264.3	17013.3	19412.6	20309.5	22579.8	26963.5	27013.9	20343.1
56°	11183.4	10914.3	12175.6	13167.8	15258.7	17882.2	19670.4	22400.4	26896.2	27283.0	20651.4
57.5°	8442.2	8262.8	9283.1	10521.9	12534.4	15303.6	17686.0	21554.0	26442.1	26436.5	20208.6
60°	5134.8	4955.4	5740.2	6469.0	7595.7	9423.2	11951.4	17164.7	22355.6	22826.5	16363.1
62.5°	3055.1	3167.2	3940.8	4383.7	4748.0	4938.6	6183.1	10202.4	14916.8	15253.1	10151.9
65°	2034.9	2074.1	2657.1	3385.8	3548.4	2825.3	2517.0	4131.4	6469.0	6261.6	4187.5
67.5°	1255.7	1345.4	1782.6	2545.0	2819.7	2062.9	1194.0	1541.6	1782.6	1782.6	1210.8
70°	762.4	807.2	1188.4	1732.2	1934.0	1328.6	868.9	868.9	857.7	840.9	723.1
72.5°	364.4	392.4	605.4	891.3	908.1	700.7	672.7	734.3	717.5	711.9	599.8
75°	157.0	168.2	213.0	280.3	319.5	297.1	409.2	526.9	543.8	526.9	431.6
77.5°	50.5	56.1	78.5	100.9	106.5	128.9	173.8	218.6	252.3	235.4	213.0
80°	5.6	11.2	22.4	50.5	78.5	100.9	128.9	145.7	162.6	162.6	151.4
82.5°	5.6	5.6	22.4	44.8	72.9	95.3	123.3	140.1	162.6	168.2	157.0
85°	0.0	5.6	16.8	39.2	61.7	61.7	56.1	56.1	39.2	39.2	39.2
87.5°	0.0	0.0	5.6	5.6	5.6	11.2	11.2	11.2	11.2	11.2	11.2
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°	5062.0	5062.0	5062.0	5062.0	5062.0	5062.0	5062.0	5062.0	5062.0	5062.0	5062.0
2.5°	5106.8	5095.6	4944.2	4848.9	4798.5	4697.6	4635.9	4591.1	4557.4	4518.2	4523.8
5°	5174.1	5134.8	4882.6	4708.8	4501.4	4389.3	4294.0	4215.5	4165.0	4153.8	4131.4
7.5°	5364.7	5157.3	4776.1	4462.1	4198.7	4086.6	4002.5	3952.0	3974.4	3924.0	3963.2
10°	5510.4	5202.1	4647.1	4193.1	3929.6	3845.5	3800.7	3839.9	3896.0	3873.5	3845.5
12.5°	5689.8	5246.9	4439.7	3935.2	3688.6	3626.9	3705.4	3778.2	3890.4	3935.2	3879.2
15°	5891.6	5297.4	4176.3	3638.1	3481.1	3531.6	3666.1	3795.1	3907.2	3963.2	3996.9
17.5°	6138.3	5280.6	3918.4	3402.7	3284.9	3430.7	3593.3	3711.0	3879.2	3963.2	3940.8
20°	6368.1	5224.5	3632.5	3167.2	3172.8	3307.4	3441.9	3632.5	3722.2	3834.3	3795.1
22.5°	6586.7	5123.6	3335.4	3004.7	3004.7	3212.1	3279.3	3402.7	3481.1	3537.2	3531.6
25°	6895.0	4933.0	3088.7	2847.7	2915.0	3049.5	3105.6	3144.8	3111.2	3156.0	3161.6
27.5°	7113.6	4736.8	2886.9	2707.6	2830.9	2931.8	2915.0	2892.5	2814.1	2752.4	2791.6
30°	7349.1	4507.0	2713.2	2612.3	2679.5	2769.2	2702.0	2634.7	2511.4	2410.5	2416.1
32.5°	7685.4	4400.5	2561.8	2500.1	2589.8	2601.0	2528.2	2427.3	2303.9	2208.6	2203.0
35°	8313.3	4333.2	2432.9	2427.3	2444.1	2449.7	2376.8	2253.5	2203.0	2124.6	2152.6
37.5°	8941.1	4299.6	2343.2	2320.8	2315.2	2320.8	2236.7	2119.0	2214.3	2208.6	2219.9
40°	9742.7	4450.9	2214.3	2186.2	2191.8	2191.8	2085.3	2051.7	2219.9	2236.7	2242.3
42.5°	10555.6	4641.5	2130.2	2040.5	2062.9	2062.9	2006.8	1967.6	2085.3	1973.2	1956.4
45°	11261.9	4921.8	2040.5	1894.7	1950.8	1978.8	1962.0	1894.7	1821.9	1631.3	1631.3
47.5°	11491.7	5168.5	1934.0	1754.6	1799.4	1922.8	1872.3	1732.2	1603.2	1446.3	1435.1
50°	11895.3	5437.5	1849.9	1592.0	1687.3	1838.7	1788.2	1648.1	1502.3	1390.2	1395.8
52.5°	12310.1	5745.9	1692.9	1401.4	1519.1	1771.4	1771.4	1614.4	1390.2	1311.7	1300.5
55°	12932.4	5734.6	1412.6	1149.2	1356.6	1670.5	1698.5	1446.3	1244.5	1182.8	1182.8
56°	13022.1	5476.8	1272.5	1076.3	1283.7	1642.5	1648.1	1401.4	1188.4	1121.1	1121.1
57.5°	12349.4	4944.2	1115.5	986.6	1194.0	1592.0	1597.6	1362.2	1143.6	1048.3	1037.1
60°	9501.7	3346.6	930.5	880.1	1081.9	1435.1	1463.1	1238.9	1003.4	930.5	924.9
62.5°	5364.7	1855.5	818.4	796.0	930.5	1222.0	1306.1	1081.9	852.1	812.8	824.0
65°	2449.7	1020.2	689.5	644.7	751.2	941.8	1053.9	891.3	700.7	655.9	655.9
67.5°	896.9	695.1	588.6	510.1	526.9	611.0	683.9	577.4	465.3	398.0	414.8
70°	639.1	583.0	515.7	442.9	409.2	398.0	392.4	325.1	229.8	179.4	190.6
72.5°	515.7	482.1	431.6	375.6	319.5	269.1	229.8	168.2	106.5	72.9	67.3
75°	370.0	353.2	313.9	269.1	224.2	190.6	157.0	106.5	56.1	28.0	28.0
77.5°	190.6	190.6	185.0	168.2	140.1	112.1	89.7	61.7	33.6	11.2	11.2
80°	145.7	157.0	162.6	145.7	128.9	100.9	72.9	44.8	22.4	5.6	5.6
82.5°	140.1	162.6	173.8	151.4	128.9	95.3	72.9	44.8	22.4	5.6	5.6
85°	33.6	33.6	50.5	56.1	72.9	78.5	61.7	39.2	16.8	5.6	5.6
87.5°	11.2	11.2	11.2	11.2	11.2	11.2	5.6	5.6	5.6	5.6	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)