

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: P532661

Luminaire Tested: **GALN-SA8A-735-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532661
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA8A-735-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22751 lumens
Efficiency: N/A
Efficacy: 93.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G1

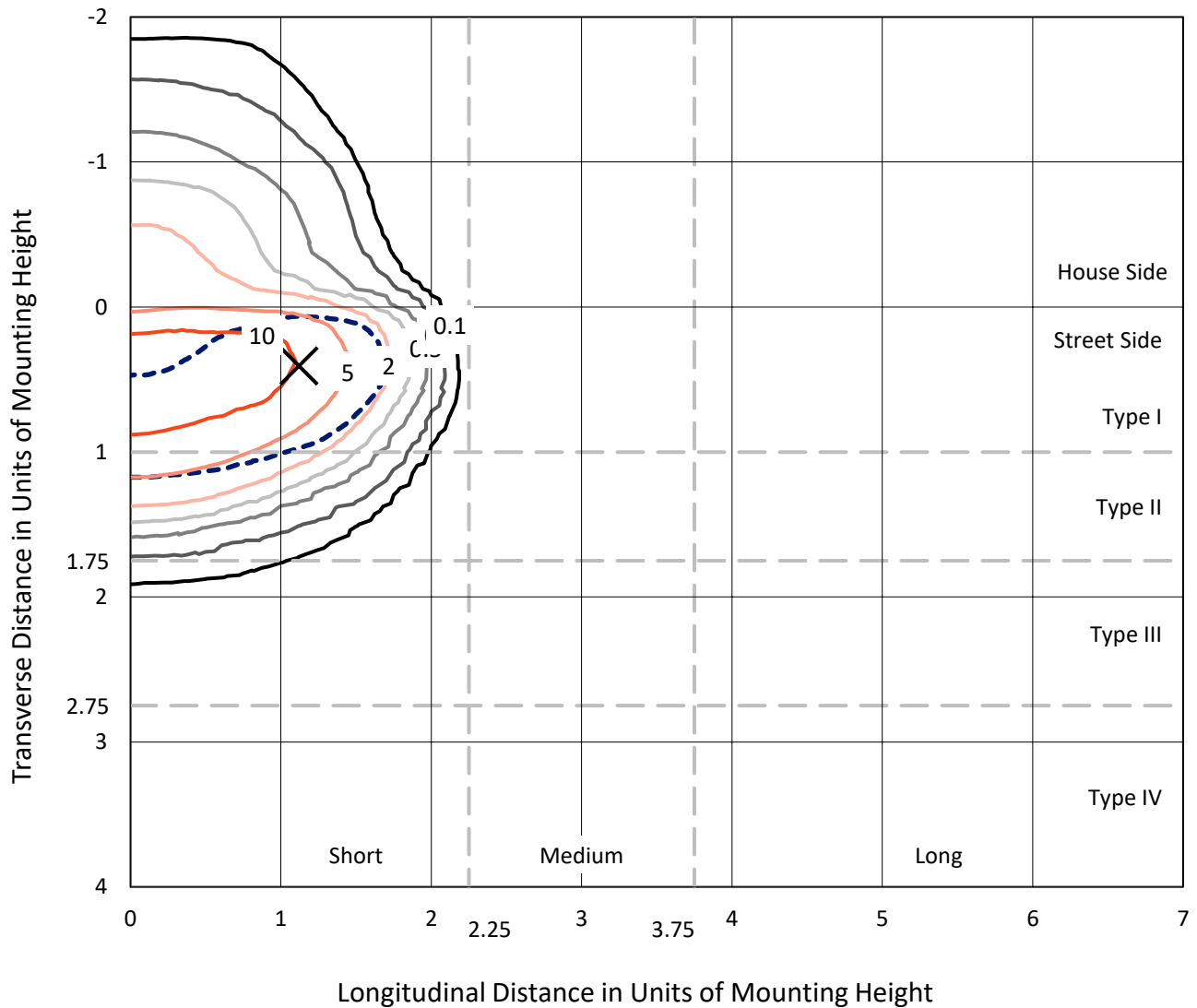
Input Watts (W): 244
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

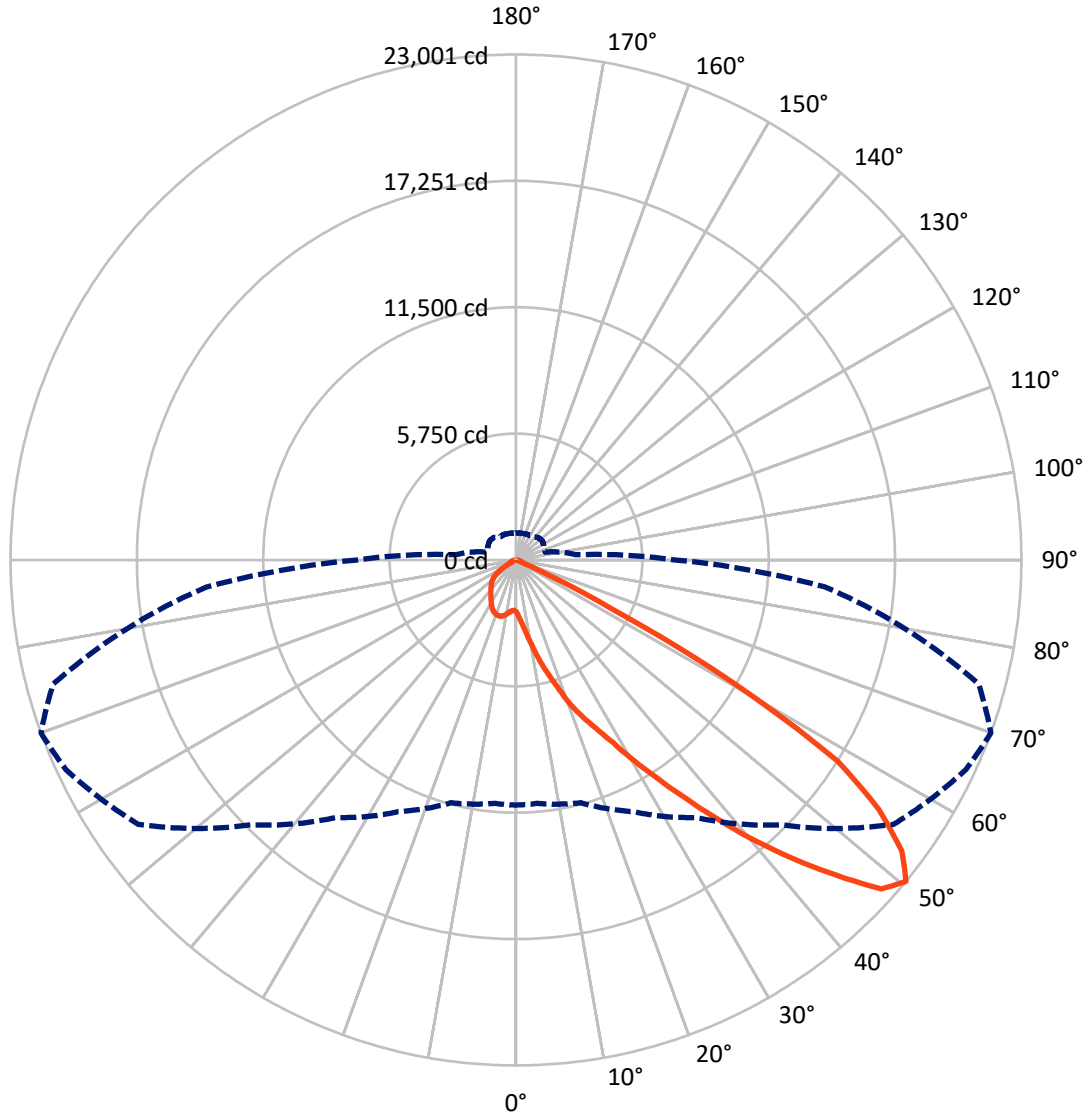
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 50-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3177.3	0.0	3177.3
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	19573.7	0.0	19573.7
	% Fixture	86.0	0.0	86.0
Total	Lumens	22751.0	0.0	22751.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	306.4	1.3
10°-20°	1325.5	5.8
20°-30°	2780.8	12.2
30°-40°	4793.1	21.1
40°-50°	7005.1	30.8
50°-60°	5455.8	24.0
60°-70°	924.4	4.1
70°-80°	127.0	0.6
80°-90°	32.9	0.1
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°	22751.0	100.0
0°-180°	22751.0	100.0

Coefficient of Utilization



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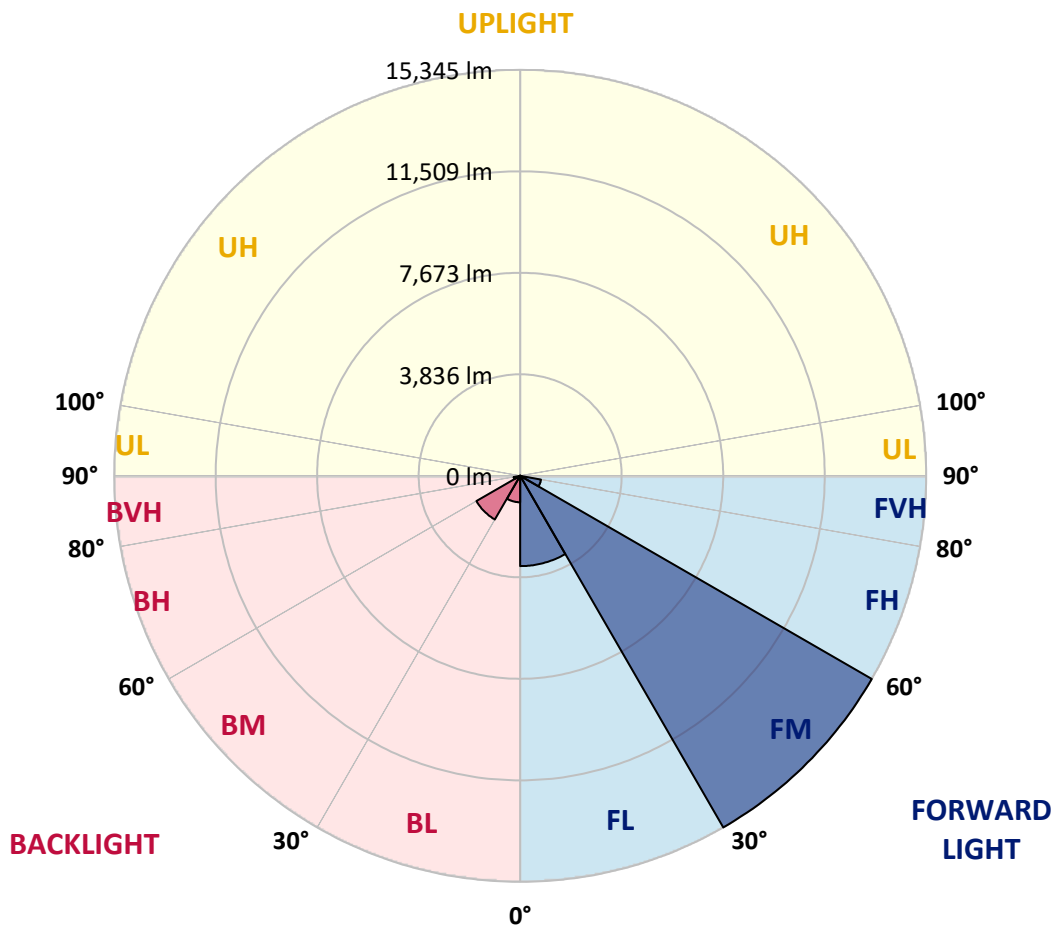
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3412.9	15.0			
FM (30°-60°)	15345.2	67.4			
FH (60°-80°)	800.4	3.5			G1/1800
FVH (80°-90°)	15.2	0.1			G1/100
BL (0°-30°)	999.8	4.4	B2/1000		
BM (30°-60°)	1908.8	8.4	B2/2500		
BH (60°-80°)	251.0	1.1	B1/500		G1/500
BVH (80°-90°)	17.7	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2356.6	2356.6	2356.6	2356.6	2356.6	2356.6	2356.6	2356.6	2356.6	2356.6	2356.6
2.5°	3086.0	3063.5	3014.9	2925.1	2887.7	2797.9	2745.6	2644.6	2581.0	2509.9	2431.4
5°	4346.5	4230.6	4159.5	4058.5	3763.0	3579.7	3276.7	3018.6	2898.9	2768.0	2588.5
7.5°	5648.3	5573.4	5476.2	5259.2	5057.2	4675.7	4155.8	3587.2	3344.1	3119.6	2764.3
10°	6725.5	6516.1	6504.8	6344.0	6123.3	5667.0	5042.3	4335.3	3901.4	3572.2	3014.9
12.5°	7477.4	7286.6	7372.7	7353.9	7148.2	6729.3	6007.3	5072.2	4619.6	4107.1	3273.0
15°	8161.9	8083.4	8057.2	8034.7	7952.4	7642.0	6994.9	5969.9	5315.3	4698.1	3564.8
17.5°	8831.5	8629.5	8726.7	8745.4	8738.0	8457.4	7851.4	6822.8	6052.2	5322.8	3871.5
20°	9426.2	9444.9	9314.0	9287.8	9265.4	9254.2	8663.1	7668.2	6957.4	5977.4	4271.7
22.5°	10189.3	10058.4	10174.3	10099.5	9953.6	9863.9	9411.3	8416.3	7743.0	6766.7	4679.4
25°	11090.8	11195.5	10922.4	10892.5	10731.7	10421.2	10013.5	9254.2	8498.6	7499.8	5120.8
27.5°	12201.7	12018.4	11947.4	11782.8	11491.0	11360.1	10881.3	10118.2	9411.3	8270.4	5547.3
30°	13155.6	13106.9	12751.6	12557.1	12302.7	12299.0	11629.4	11289.0	10600.8	9478.6	6134.5
32.5°	13933.6	13720.4	13589.5	13454.8	13249.1	13305.2	12740.4	12560.8	11868.8	10600.8	6826.5
35°	14453.5	14300.2	14221.6	14015.9	13956.0	14206.7	13971.0	13896.2	13327.6	12179.3	7638.2
37.5°	14618.1	14666.8	14651.8	14393.7	14520.9	15197.9	15500.9	15306.4	15007.1	13843.8	8517.3
40°	14764.0	14797.7	14722.9	15025.8	15388.7	16159.2	17255.2	16933.5	16821.3	15530.8	9740.4
42.5°	14846.3	14820.1	14820.1	15343.8	15893.7	17442.3	18949.7	18736.5	18650.5	17326.3	11154.4
45°	14490.9	14236.6	14509.6	15220.4	16327.6	18074.4	20303.8	20599.3	20475.8	19462.2	12807.7
47.5°	13163.0	13320.1	13473.5	14423.6	15800.1	17879.9	21134.2	22140.4	22368.6	21257.6	13892.5
50°	11154.4	11120.7	11438.6	12635.6	14307.7	17042.0	20973.3	22585.5	23000.7	21796.3	14120.6
52.5°	8113.3	8360.2	8704.3	9893.8	11876.3	14872.5	18897.3	21437.2	21990.8	21134.2	13971.0
55°	4724.3	4451.3	5225.6	6231.8	8102.1	11218.0	15976.0	19002.1	20027.0	19929.7	13215.4
57.5°	1892.7	1832.9	2098.5	2827.9	4226.8	6953.7	11618.2	15613.1	17255.2	18254.0	11614.5
60°	830.4	811.7	953.8	1152.1	1728.1	3205.7	6355.2	9710.5	11423.7	12755.3	7993.6
62.5°	598.5	591.0	662.1	733.2	912.7	1395.2	2670.8	3912.6	4877.7	5891.4	3579.7
65°	482.5	501.2	549.9	587.3	673.3	774.3	942.6	1088.5	1335.4	1384.0	789.3
67.5°	392.8	407.7	452.6	493.8	508.7	418.9	433.9	381.5	381.5	340.4	273.1
70°	288.0	291.8	344.1	392.8	314.2	168.3	295.5	295.5	265.6	254.4	231.9
72.5°	213.2	217.0	258.1	243.1	123.4	104.7	217.0	239.4	217.0	205.7	187.0
75°	157.1	160.8	134.7	56.1	52.4	67.3	127.2	164.6	157.1	153.4	142.1
77.5°	29.9	22.4	18.7	26.2	37.4	56.1	82.3	101.0	104.7	112.2	104.7
80°	3.7	3.7	11.2	22.4	41.1	59.8	86.0	97.3	101.0	104.7	97.3
82.5°	0.0	3.7	11.2	22.4	41.1	56.1	74.8	86.0	93.5	97.3	93.5
85°	0.0	3.7	7.5	18.7	33.7	41.1	37.4	26.2	22.4	26.2	18.7
87.5°	0.0	0.0	3.7	3.7	7.5	7.5	7.5	7.5	7.5	7.5	7.5
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°	2356.6	2356.6	2356.6	2356.6	2356.6	2356.6	2356.6	2356.6	2356.6	2356.6	2356.6
2.5°	2386.5	2371.5	2319.1	2263.0	2214.4	2236.9	2214.4	2195.7	2203.2	2195.7	2188.2
5°	2517.4	2450.1	2337.9	2289.2	2248.1	2244.3	2233.1	2229.4	2233.1	2233.1	2199.5
7.5°	2640.8	2532.4	2412.7	2360.3	2311.7	2315.4	2289.2	2289.2	2285.5	2266.8	2259.3
10°	2827.9	2682.0	2528.6	2435.1	2375.3	2364.0	2337.9	2311.7	2311.7	2311.7	2274.3
12.5°	3033.6	2850.3	2640.8	2532.4	2461.3	2405.2	2364.0	2356.6	2315.4	2307.9	2289.2
15°	3213.1	2981.2	2715.6	2566.0	2476.3	2401.4	2337.9	2296.7	2278.0	2266.8	2251.8
17.5°	3389.0	3093.4	2756.8	2566.0	2468.8	2382.7	2315.4	2278.0	2233.1	2240.6	2210.7
20°	3624.6	3213.1	2768.0	2517.4	2397.7	2315.4	2225.6	2206.9	2180.7	2158.3	2165.8
22.5°	3852.8	3299.2	2734.4	2457.6	2285.5	2188.2	2143.3	2120.9	2109.7	2091.0	2064.8
25°	4058.5	3392.7	2682.0	2349.1	2165.8	2094.7	2053.6	2049.8	2023.6	2023.6	1975.0
27.5°	4268.0	3426.4	2592.2	2221.9	2061.1	2019.9	2001.2	1993.7	1982.5	1956.3	1922.7
30°	4507.4	3437.6	2461.3	2091.0	1967.5	1922.7	1948.8	1967.5	1918.9	1870.3	1885.2
32.5°	4705.6	3411.4	2304.2	1967.5	1900.2	1877.8	1930.1	1948.8	1892.7	1840.4	1814.2
35°	4945.0	3347.8	2150.8	1870.3	1832.9	1877.8	1922.7	1922.7	1810.4	1746.8	1731.9
37.5°	5307.9	3276.7	2008.7	1788.0	1761.8	1855.3	1915.2	1874.0	1698.2	1619.7	1601.0
40°	5696.9	3231.8	1870.3	1705.7	1724.4	1817.9	1851.6	1724.4	1544.9	1496.2	1481.3
42.5°	6261.7	3142.1	1746.8	1634.6	1690.7	1765.5	1765.5	1537.4	1470.0	1443.9	1440.1
45°	6964.9	3078.5	1638.4	1574.8	1642.1	1660.8	1601.0	1440.1	1391.5	1384.0	1387.7
47.5°	7309.1	2955.0	1526.2	1503.7	1552.3	1556.1	1399.0	1361.6	1320.4	1309.2	1301.7
50°	7256.7	2734.4	1380.3	1410.2	1477.5	1440.1	1275.5	1283.0	1245.6	1241.9	1223.2
52.5°	6890.1	2386.5	1234.4	1305.5	1380.3	1271.8	1174.5	1167.1	1167.1	1118.4	1099.7
55°	6108.3	1922.7	1058.6	1148.4	1238.1	1069.8	1043.6	1036.1	1017.4	972.5	961.3
57.5°	4836.5	1410.2	796.7	894.0	1051.1	909.0	905.2	871.6	822.9	789.3	789.3
60°	2876.5	811.7	501.2	546.1	695.7	736.9	819.2	804.2	721.9	669.6	654.6
62.5°	1312.9	418.9	317.9	325.4	374.1	478.8	643.4	744.4	628.4	538.6	531.2
65°	441.4	310.5	261.8	250.6	258.1	288.0	385.3	527.4	501.2	415.2	400.2
67.5°	269.3	276.8	246.9	228.2	228.2	224.4	220.7	239.4	295.5	288.0	291.8
70°	231.9	254.4	228.2	205.7	198.2	187.0	157.1	130.9	112.2	130.9	138.4
72.5°	187.0	202.0	194.5	175.8	157.1	142.1	112.2	86.0	63.6	56.1	56.1
75°	138.4	149.6	157.1	134.7	119.7	101.0	82.3	56.1	33.7	22.4	22.4
77.5°	101.0	112.2	116.0	104.7	89.8	71.1	52.4	37.4	18.7	7.5	7.5
80°	86.0	101.0	112.2	104.7	93.5	67.3	48.6	26.2	15.0	3.7	3.7
82.5°	82.3	101.0	112.2	101.0	89.8	63.6	48.6	29.9	11.2	3.7	3.7
85°	18.7	26.2	33.7	41.1	48.6	48.6	37.4	22.4	11.2	3.7	3.7
87.5°	7.5	7.5	7.5	7.5	7.5	7.5	7.5	7.5	3.7	3.7	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)