

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: P529962

Luminaire Tested: **GALN-SA5A-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P529962
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-SA5A-827-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 2700K, 615mA 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: 14696 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

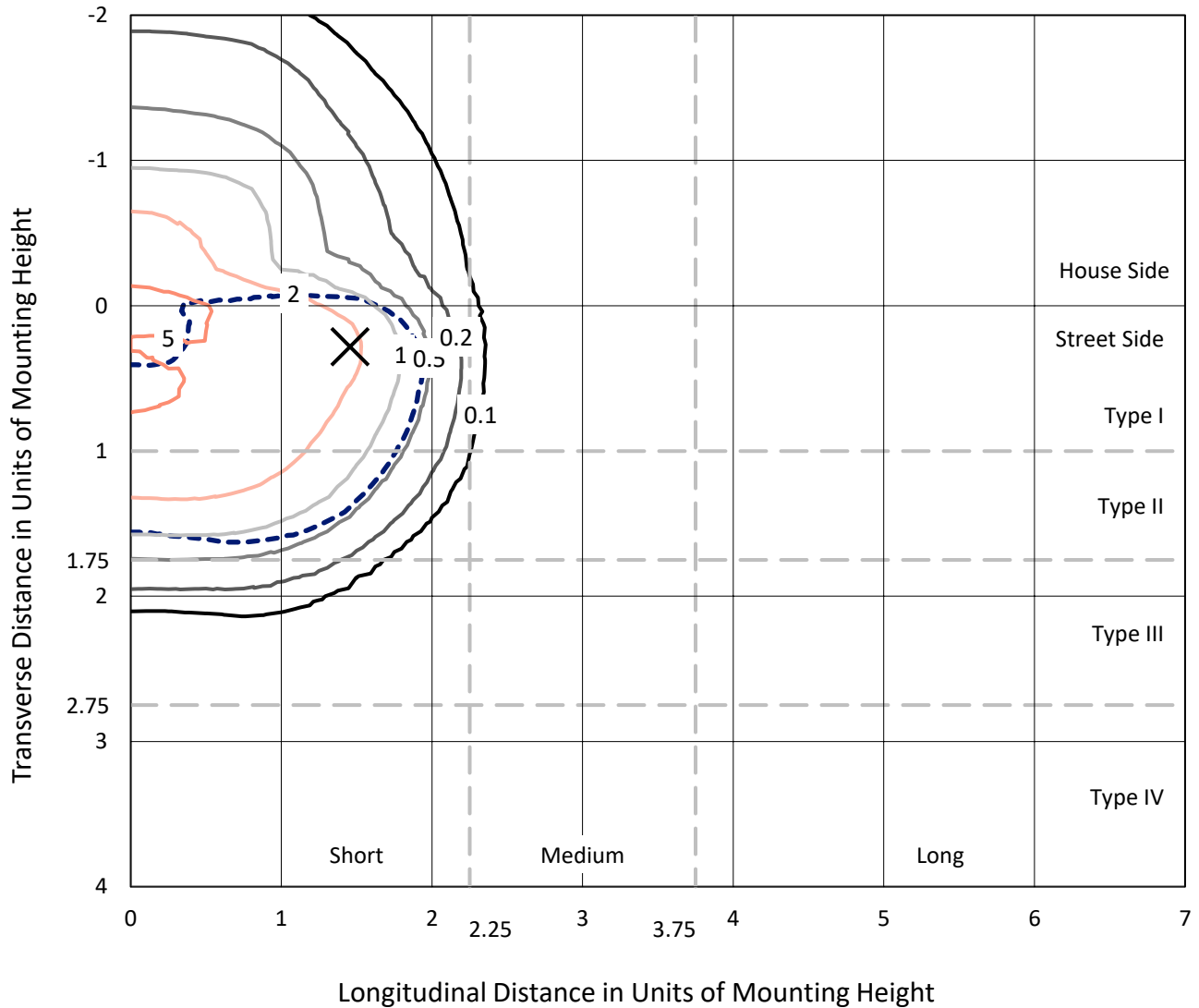
Input Watts (W): 154
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

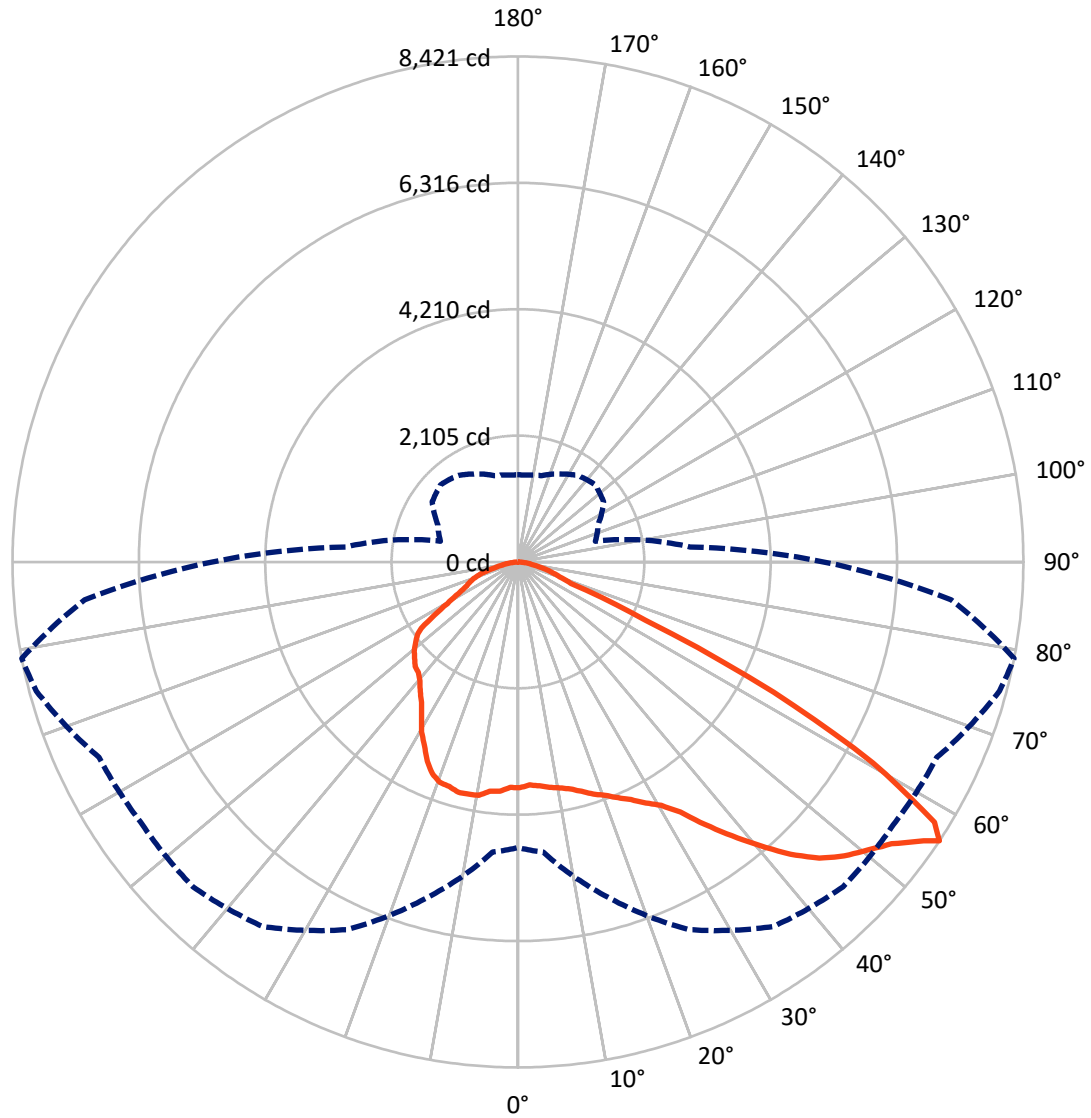
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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	4340.1	0.0	4340.1
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	10355.9	0.0	10355.9
	% Fixture	70.5	0.0	70.5
Total	Lumens	14696.0	0.0	14696.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	341.9	2.3
10°-20°	935.6	6.4
20°-30°	1600.6	10.9
30°-40°	2453.2	16.7
40°-50°	3315.4	22.6
50°-60°	3807.9	25.9
60°-70°	1735.7	11.8
70°-80°	427.9	2.9
80°-90°	77.8	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°	14696.0	100.0
0°-180°	14696.0	100.0

Coefficient of Utilization



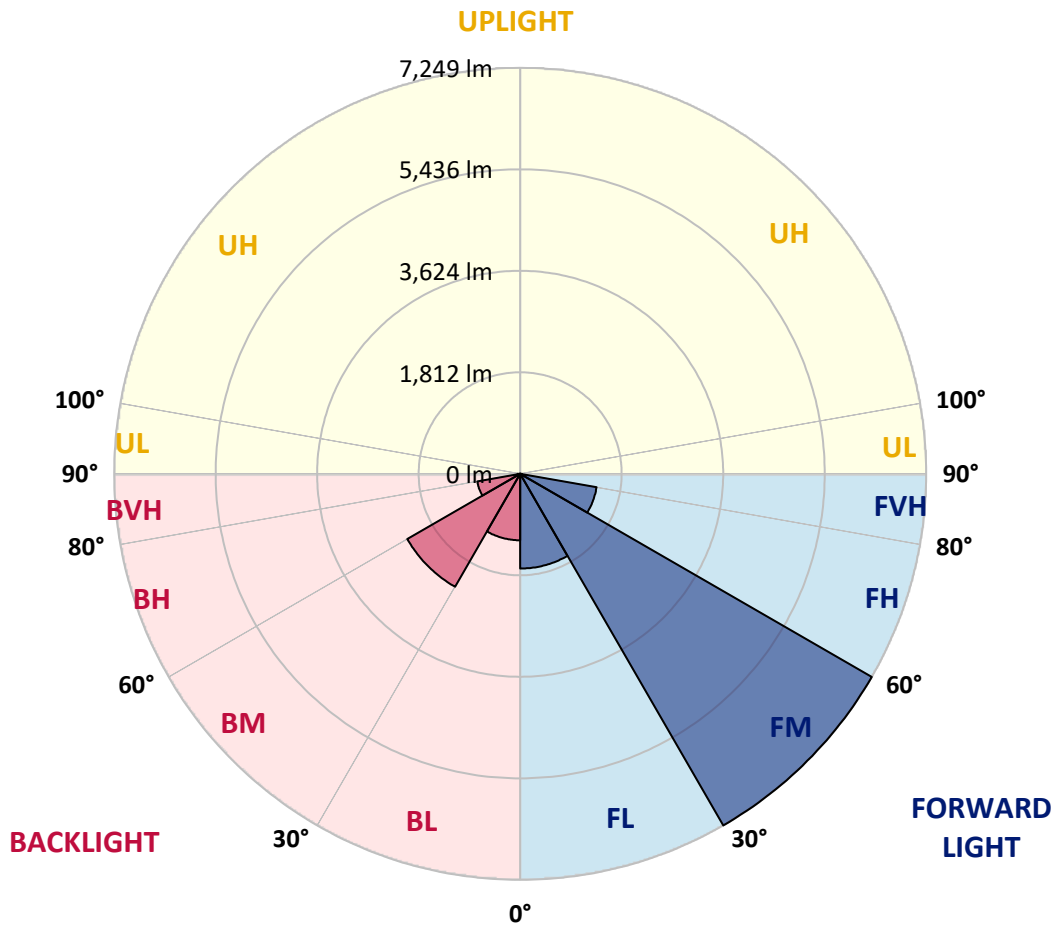
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1690.9	11.5			
FM (30°-60°)	7248.5	49.3			
FH (60°-80°)	1385.5	9.4			G1/1800
FVH (80°-90°)	31.1	0.2			G1/100
BL (0°-30°)	1187.2	8.1	B3/2500		
BM (30°-60°)	2328.0	15.8	B2/2500		
BH (60°-80°)	778.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	46.7	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3760.1	3760.1	3760.1	3760.1	3760.1	3760.1	3760.1	3760.1	3760.1	3760.1	3760.1
2.5°	3577.1	3567.9	3589.9	3606.4	3626.5	3652.1	3664.9	3672.3	3736.3	3719.9	3769.3
5°	3500.2	3476.4	3492.9	3505.7	3540.4	3571.6	3606.4	3661.3	3719.9	3745.5	3805.9
7.5°	3432.4	3419.6	3416.0	3425.1	3472.7	3513.0	3573.4	3653.9	3749.1	3791.2	3826.0
10°	3320.8	3302.5	3329.9	3390.3	3403.2	3487.4	3556.9	3672.3	3754.6	3827.9	3930.4
12.5°	3271.3	3253.0	3258.5	3293.3	3383.0	3463.6	3545.9	3675.9	3849.8	3879.1	4016.4
15°	3350.1	3331.8	3337.2	3328.1	3414.1	3456.2	3586.2	3749.1	3915.7	3965.2	4111.6
17.5°	3529.5	3531.3	3507.5	3487.4	3467.2	3556.9	3646.6	3793.1	3941.4	4065.8	4175.7
20°	3871.8	3811.4	3763.8	3650.3	3619.2	3657.6	3771.1	3912.1	4045.7	4148.2	4272.7
22.5°	4135.4	4140.9	4073.2	3886.4	3818.7	3835.2	3932.2	4047.5	4194.0	4267.2	4410.0
25°	4518.0	4479.6	4406.3	4258.1	4106.1	4118.9	4190.3	4294.7	4334.9	4386.2	4541.8
27.5°	4867.7	4878.6	4734.0	4594.9	4406.3	4369.7	4497.9	4516.2	4448.4	4545.5	4598.6
30°	5222.8	5213.6	5118.5	4955.5	4770.6	4778.0	4834.7	4745.0	4651.6	4704.7	4741.3
32.5°	5590.8	5486.4	5482.8	5336.3	5195.3	5127.6	5058.0	5102.0	4957.4	4968.3	4933.6
35°	5885.5	5900.1	5815.9	5711.6	5642.0	5523.0	5332.6	5411.4	5383.9	5371.1	5221.0
37.5°	6099.7	6042.9	6085.0	6050.2	5984.3	5836.1	5638.4	5713.4	5726.2	5788.5	5614.6
40°	6275.4	6251.6	6363.3	6381.6	6335.8	6015.5	5660.3	5883.7	6075.9	6211.3	6004.5
42.5°	6359.6	6410.9	6528.0	6669.0	6566.5	6224.2	5773.8	6013.6	6442.0	6656.2	6374.3
45°	6473.1	6407.2	6581.1	6839.3	6841.1	6399.9	5883.7	6189.4	6727.6	7038.8	6626.9
47.5°	6357.8	6390.7	6570.1	6897.8	6982.0	6584.8	6180.2	6438.3	7042.5	7318.9	6861.2
50°	6099.7	6165.6	6493.3	6833.8	7088.2	6780.7	6520.7	6707.4	7333.5	7544.0	6899.7
52.5°	5830.6	5867.2	6379.8	6883.2	7135.8	7033.3	6976.6	7079.1	7688.7	7798.5	6947.3
55°	5098.3	5272.2	6004.5	6861.2	7368.3	7489.1	7445.2	7595.3	8091.4	8201.2	7207.2
56°	4759.7	4851.2	5779.3	6758.7	7414.1	7655.7	7633.7	7701.5	8305.6	8420.9	7247.5
57.5°	4133.6	4140.9	4928.1	6304.7	7242.0	7705.1	7683.2	7736.3	8263.5	8184.8	6894.2
60°	2586.7	2700.2	3353.7	4849.4	6158.3	7148.6	7273.1	6846.6	6967.4	6800.8	5363.8
62.5°	1340.0	1323.5	1757.4	2835.7	4087.8	5118.5	5233.8	5213.6	5026.9	4783.4	3503.8
65°	668.2	671.8	919.0	1404.1	2094.2	2680.0	3002.2	3037.0	2540.9	2337.7	1662.2
67.5°	485.1	503.4	660.9	858.6	986.7	1103.9	1352.8	1327.2	1005.0	955.6	886.0
70°	377.1	393.6	536.4	655.4	595.0	595.0	648.0	670.0	715.8	735.9	759.7
72.5°	274.6	287.4	410.1	452.2	389.9	419.2	485.1	536.4	584.0	591.3	618.8
75°	188.6	199.5	269.1	249.0	234.3	289.2	355.1	402.7	437.5	455.8	472.3
77.5°	122.7	126.3	153.8	130.0	150.1	186.7	230.7	270.9	305.7	320.4	324.0
80°	54.9	60.4	65.9	82.4	104.3	133.6	164.8	197.7	219.7	225.2	236.2
82.5°	31.1	31.1	40.3	58.6	76.9	97.0	119.0	142.8	168.4	173.9	172.1
85°	16.5	16.5	23.8	34.8	47.6	56.7	54.9	56.7	60.4	69.6	67.7
87.5°	5.5	5.5	7.3	7.3	9.2	11.0	9.2	12.8	16.5	16.5	16.5
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°	3760.1	3760.1	3760.1	3760.1	3760.1	3760.1	3760.1	3760.1	3760.1	3760.1	3760.1
2.5°	3754.6	3771.1	3749.1	3796.7	3796.7	3787.6	3741.8	3756.5	3767.4	3767.4	3776.6
5°	3826.0	3820.5	3835.2	3778.4	3743.6	3730.8	3655.8	3619.2	3588.0	3586.2	3558.8
7.5°	3866.3	3851.7	3846.2	3804.1	3650.3	3556.9	3395.8	3302.5	3282.3	3210.9	3238.4
10°	3930.4	3957.8	3930.4	3701.5	3487.4	3273.2	3115.7	2971.1	2914.4	2868.6	2841.1
12.5°	4062.2	4049.4	3890.1	3580.7	3280.5	3026.0	2791.7	2639.8	2583.0	2542.8	2539.1
15°	4173.8	4109.8	3866.3	3390.3	2958.3	2687.4	2495.2	2387.1	2361.5	2365.2	2381.7
17.5°	4212.3	4168.4	3741.8	3192.6	2718.5	2400.0	2310.3	2293.8	2317.6	2345.0	2352.4
20°	4272.7	4203.1	3690.6	2923.5	2421.9	2220.6	2215.1	2273.6	2317.6	2357.9	2363.3
22.5°	4399.0	4223.3	3524.0	2669.1	2218.7	2167.5	2220.6	2270.0	2337.7	2370.7	2341.4
25°	4435.6	4179.3	3289.7	2363.3	2090.6	2134.5	2191.3	2259.0	2306.6	2324.9	2337.7
27.5°	4466.7	4111.6	2973.0	2160.1	2050.3	2132.7	2191.3	2248.0	2273.6	2290.1	2304.8
30°	4554.6	4091.5	2698.4	2024.7	2024.7	2096.1	2171.1	2185.8	2220.6	2240.7	2266.3
32.5°	4598.6	3952.3	2416.4	1938.6	1999.1	2114.4	2119.9	2147.3	2149.2	2165.6	2138.2
35°	4713.9	3853.5	2154.7	1876.4	2010.0	2096.1	2123.5	2107.1	2017.4	1973.4	1982.6
37.5°	4798.1	3804.1	1966.1	1869.1	2011.9	2116.2	2130.9	2006.4	1913.0	1839.8	1858.1
40°	5025.1	3681.4	1823.3	1856.3	2028.3	2138.2	2097.9	1962.4	1794.0	1719.0	1706.2
42.5°	5199.0	3593.5	1733.6	1841.6	2041.2	2169.3	2081.4	1874.6	1702.5	1632.9	1651.2
45°	5400.4	3573.4	1686.0	1845.3	2063.1	2185.8	2061.3	1806.8	1623.8	1596.3	1590.8
47.5°	5471.8	3428.8	1634.8	1814.2	2057.6	2180.3	1993.6	1755.6	1594.5	1598.1	1612.8
50°	5352.8	3280.5	1596.3	1750.1	2021.0	2130.9	1887.4	1687.8	1578.0	1623.8	1649.4
52.5°	5200.8	3128.6	1517.6	1664.0	1946.0	2054.0	1838.0	1684.2	1561.5	1546.9	1552.4
55°	5246.6	3004.1	1407.8	1546.9	1825.1	1911.2	1783.0	1649.4	1521.3	1466.3	1484.6
56°	5098.3	2875.9	1336.4	1473.7	1742.8	1819.7	1755.6	1618.3	1488.3	1451.7	1451.7
57.5°	4679.1	2445.7	1243.0	1356.5	1568.9	1660.4	1702.5	1600.0	1451.7	1387.6	1389.5
60°	3450.7	1739.1	1114.9	1195.4	1299.8	1373.0	1568.9	1548.7	1360.2	1316.2	1299.8
62.5°	2127.2	1270.5	1023.3	1054.4	1107.5	1167.9	1369.3	1402.3	1263.1	1215.5	1204.6
65°	1191.7	972.1	953.8	966.6	992.2	1023.3	1136.8	1210.0	1114.9	1041.6	1038.0
67.5°	871.4	869.6	884.2	895.2	906.2	906.2	933.6	962.9	950.1	891.5	886.0
70°	774.4	779.9	790.8	792.7	796.3	783.5	761.5	752.4	767.0	730.4	723.1
72.5°	638.9	657.2	670.0	671.8	651.7	635.2	605.9	574.8	563.8	556.5	554.7
75°	490.6	503.4	508.9	507.1	499.8	476.0	441.2	410.1	389.9	368.0	378.9
77.5°	331.3	349.7	358.8	358.8	347.8	311.2	294.7	270.9	250.8	227.0	230.7
80°	232.5	245.3	260.0	258.1	239.8	221.5	197.7	175.7	159.3	141.0	139.1
82.5°	173.9	181.2	188.6	184.9	172.1	153.8	137.3	117.2	98.9	86.0	86.0
85°	62.2	67.7	82.4	86.0	93.4	93.4	78.7	65.9	53.1	43.9	43.9
87.5°	18.3	18.3	20.1	20.1	18.3	20.1	16.5	18.3	20.1	12.8	12.8
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)