

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: P528220

Luminaire Tested: **GALN-SA3B-735-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528220
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-SA3B-735-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA 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: 13813 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

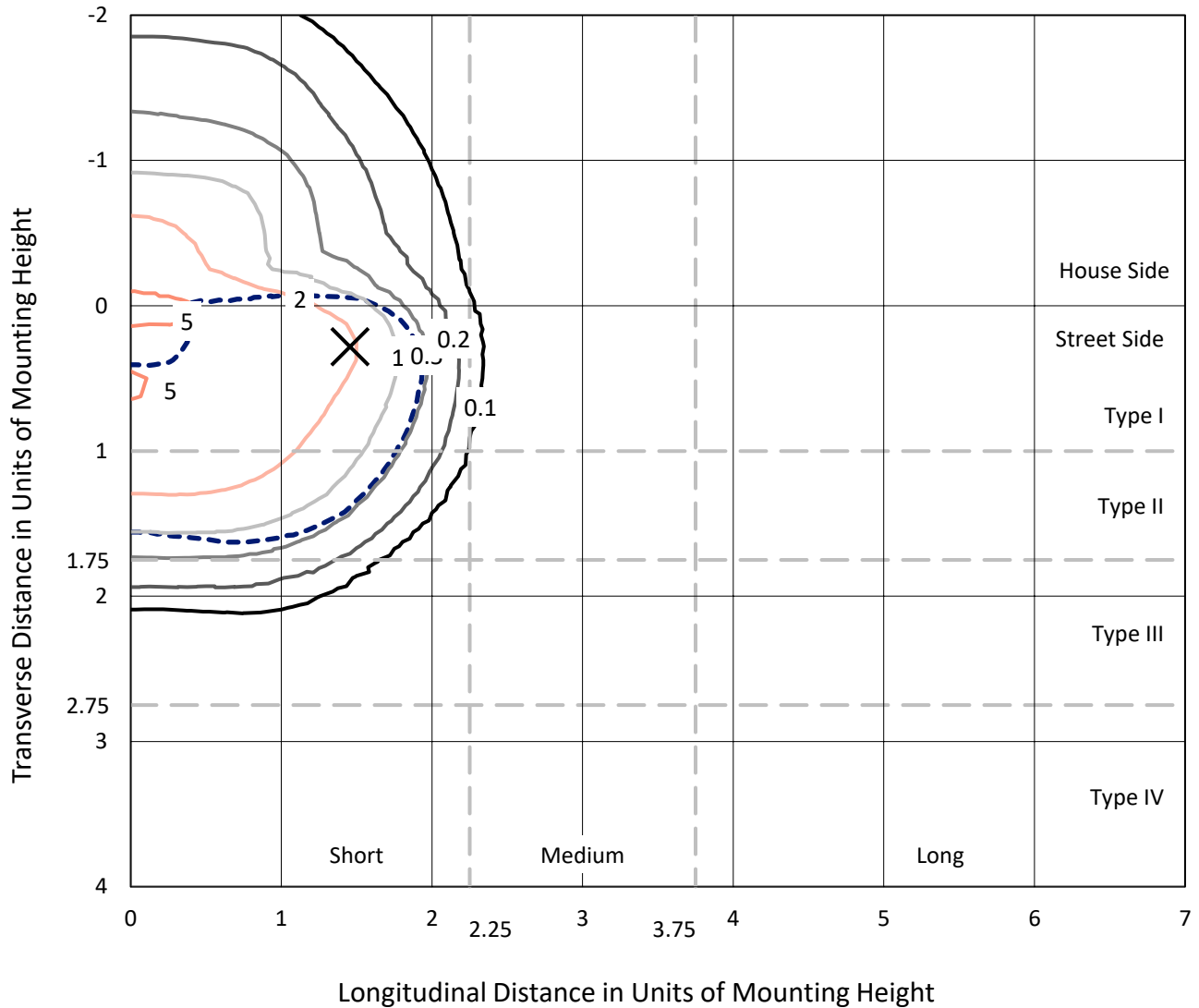
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

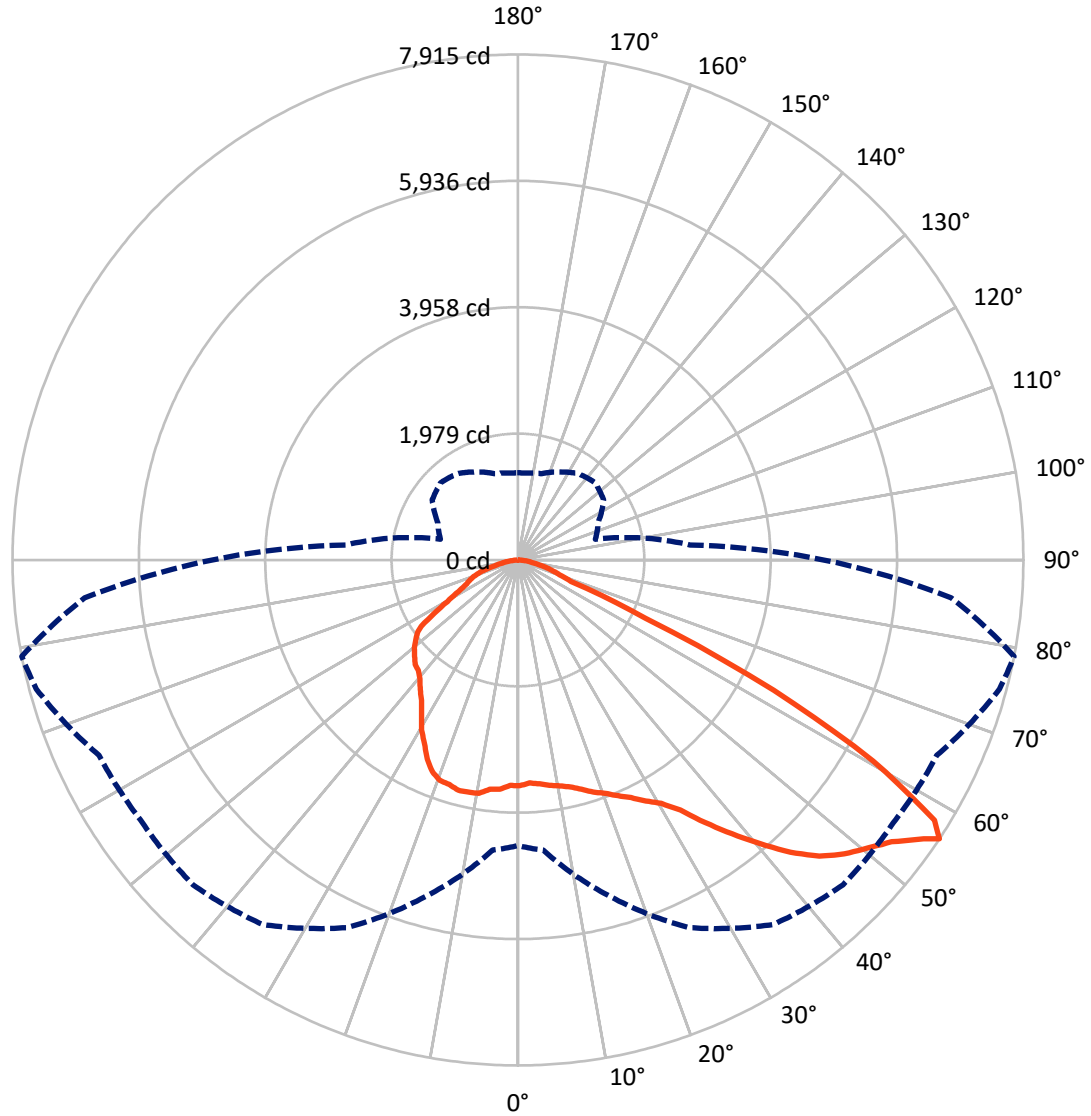
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	4079.3	0.0	4079.3
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	9733.7	0.0	9733.7
	% Fixture	70.5	0.0	70.5
Total	Lumens	13813.0	0.0	13813.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	321.3	2.3
10°-20°	879.4	6.4
20°-30°	1504.4	10.9
30°-40°	2305.8	16.7
40°-50°	3116.2	22.6
50°-60°	3579.1	25.9
60°-70°	1631.5	11.8
70°-80°	402.2	2.9
80°-90°	73.1	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°	13813.0	100.0
0°-180°	13813.0	100.0

Coefficient of Utilization



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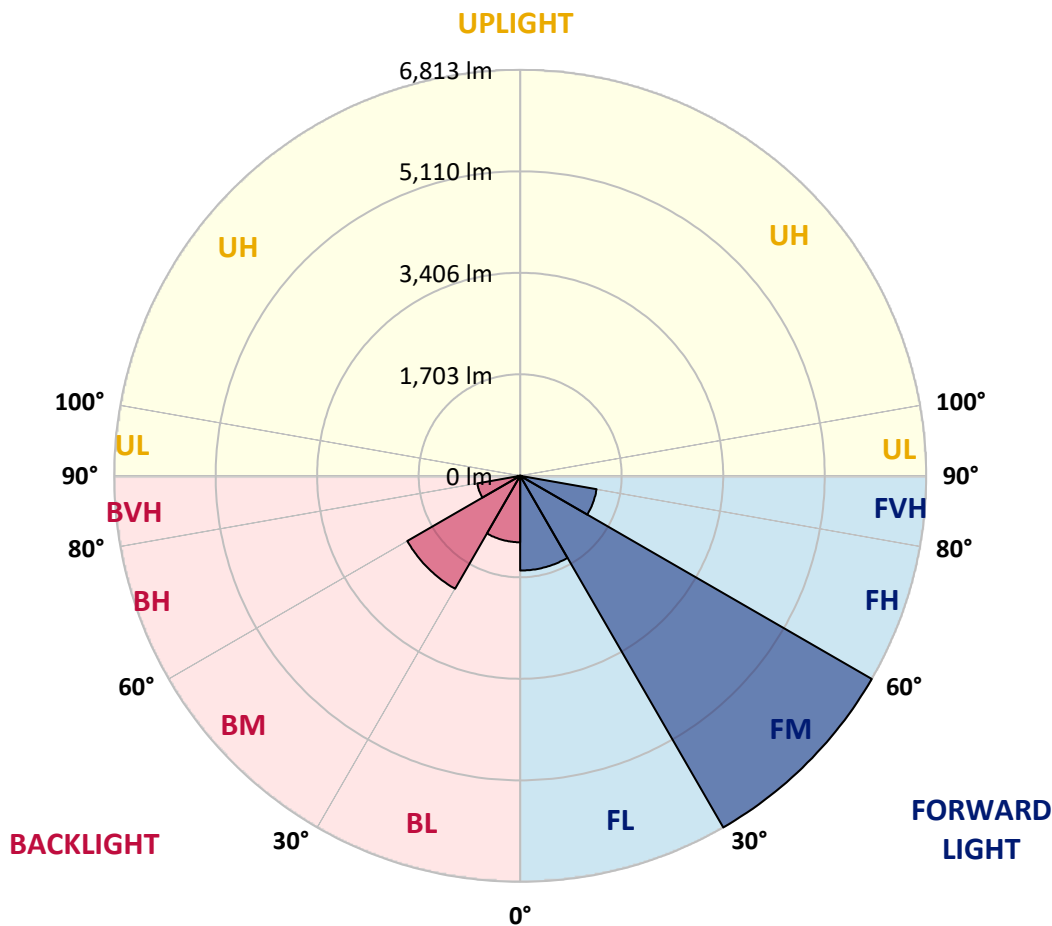
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1589.3	11.5			
FM (30°-60°)	6813.0	49.3			
FH (60°-80°)	1302.2	9.4			G1/1800
FVH (80°-90°)	29.2	0.2			G1/100
BL (0°-30°)	1115.9	8.1	B3/2500		
BM (30°-60°)	2188.1	15.8	B2/2500		
BH (60°-80°)	731.4	5.3	B2/1000		G2/1000
BVH (80°-90°)	43.9	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°	3534.2	3534.2	3534.2	3534.2	3534.2	3534.2	3534.2	3534.2	3534.2	3534.2	3534.2
2.5°	3362.1	3353.5	3374.2	3389.7	3408.6	3432.7	3444.7	3451.6	3511.8	3496.3	3542.8
5°	3289.9	3267.5	3283.0	3295.0	3327.7	3357.0	3389.7	3441.3	3496.3	3520.4	3577.2
7.5°	3226.2	3214.2	3210.7	3219.3	3264.1	3301.9	3358.7	3434.4	3523.9	3563.5	3596.1
10°	3121.2	3104.0	3129.8	3186.6	3198.7	3277.8	3343.2	3451.6	3529.0	3597.9	3694.2
12.5°	3074.8	3057.6	3062.7	3095.4	3179.7	3255.5	3332.9	3455.1	3618.5	3646.0	3775.1
15°	3148.8	3131.6	3136.7	3128.1	3209.0	3248.6	3370.7	3523.9	3680.5	3726.9	3864.6
17.5°	3317.4	3319.1	3296.8	3277.8	3258.9	3343.2	3427.5	3565.2	3704.5	3821.5	3924.8
20°	3639.2	3582.4	3537.6	3431.0	3401.7	3437.8	3544.5	3677.0	3802.6	3899.0	4016.0
22.5°	3886.9	3892.1	3828.4	3652.9	3589.3	3604.7	3695.9	3804.3	3942.0	4010.8	4145.0
25°	4246.5	4210.4	4141.6	4002.2	3859.4	3871.4	3938.6	4036.6	4074.5	4122.7	4268.9
27.5°	4575.2	4585.5	4449.6	4318.8	4141.6	4107.2	4227.6	4244.8	4181.2	4272.4	4322.3
30°	4909.0	4900.4	4810.9	4657.8	4484.0	4490.9	4544.2	4459.9	4372.2	4422.1	4456.5
32.5°	5254.8	5156.8	5153.3	5015.7	4883.2	4819.5	4754.1	4795.4	4659.5	4669.8	4637.1
35°	5531.9	5545.6	5466.5	5368.4	5303.0	5191.2	5012.2	5086.2	5060.4	5048.4	4907.3
37.5°	5733.2	5679.8	5719.4	5686.7	5624.8	5485.4	5299.6	5370.1	5382.2	5440.7	5277.2
40°	5898.4	5876.0	5981.0	5998.2	5955.1	5654.0	5320.2	5530.1	5710.8	5838.1	5643.7
42.5°	5977.5	6025.7	6135.8	6268.3	6171.9	5850.2	5426.9	5652.3	6054.9	6256.3	5991.3
45°	6084.2	6022.2	6185.7	6428.3	6430.0	6015.4	5530.1	5817.5	6323.4	6615.9	6228.7
47.5°	5975.8	6006.8	6175.4	6483.4	6562.5	6189.2	5808.9	6051.5	6619.3	6879.1	6449.0
50°	5733.2	5795.1	6103.1	6423.2	6662.3	6373.3	6128.9	6304.4	6892.9	7090.8	6485.1
52.5°	5480.2	5514.7	5996.4	6469.6	6707.1	6610.7	6557.4	6653.7	7226.7	7329.9	6529.8
55°	4792.0	4955.5	5643.7	6449.0	6925.6	7039.1	6997.9	7138.9	7605.2	7708.5	6774.2
56°	4473.7	4559.7	5432.1	6352.6	6968.6	7195.7	7175.1	7238.7	7806.6	7915.0	6812.0
57.5°	3885.2	3892.1	4632.0	5925.9	6806.9	7242.2	7221.5	7271.4	7767.0	7693.0	6479.9
60°	2431.3	2537.9	3152.2	4558.0	5788.2	6719.1	6836.1	6435.2	6548.8	6392.2	5041.5
62.5°	1259.5	1244.0	1651.8	2665.3	3842.2	4810.9	4919.3	4900.4	4724.9	4496.0	3293.3
65°	628.0	631.5	863.8	1319.7	1968.4	2519.0	2821.9	2854.5	2388.3	2197.3	1562.3
67.5°	456.0	473.2	621.2	807.0	927.4	1037.5	1271.6	1247.5	944.6	898.2	832.8
70°	354.5	369.9	504.1	616.0	559.2	559.2	609.1	629.8	672.8	691.7	714.1
72.5°	258.1	270.1	385.4	425.0	366.5	394.0	456.0	504.1	548.9	555.8	581.6
75°	177.2	187.6	252.9	234.0	220.2	271.9	333.8	378.5	411.2	428.4	443.9
77.5°	115.3	118.7	144.5	122.2	141.1	175.5	216.8	254.7	287.3	301.1	304.6
80°	51.6	56.8	61.9	77.4	98.1	125.6	154.9	185.8	206.5	211.6	222.0
82.5°	29.3	29.3	37.9	55.1	72.3	91.2	111.8	134.2	158.3	163.5	161.7
85°	15.5	15.5	22.4	32.7	44.7	53.3	51.6	53.3	56.8	65.4	63.7
87.5°	5.2	5.2	6.9	6.9	8.6	10.3	8.6	12.0	15.5	15.5	15.5
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°	3534.2	3534.2	3534.2	3534.2	3534.2	3534.2	3534.2	3534.2	3534.2	3534.2	3534.2
2.5°	3529.0	3544.5	3523.9	3568.6	3568.6	3560.0	3517.0	3530.8	3541.1	3541.1	3549.7
5°	3596.1	3591.0	3604.7	3551.4	3518.7	3506.7	3436.1	3401.7	3372.5	3370.7	3344.9
7.5°	3634.0	3620.2	3615.1	3575.5	3431.0	3343.2	3191.8	3104.0	3085.1	3018.0	3043.8
10°	3694.2	3720.0	3694.2	3479.1	3277.8	3076.5	2928.5	2792.6	2739.3	2696.2	2670.4
12.5°	3818.1	3806.1	3656.4	3365.6	3083.4	2844.2	2624.0	2481.2	2427.8	2390.0	2386.5
15°	3923.1	3862.8	3634.0	3186.6	2780.6	2525.9	2345.2	2243.7	2219.6	2223.1	2238.6
17.5°	3959.2	3917.9	3517.0	3000.8	2555.2	2255.8	2171.5	2156.0	2178.3	2204.1	2211.0
20°	4016.0	3950.6	3468.8	2747.9	2276.4	2087.1	2082.0	2137.0	2178.3	2216.2	2221.3
22.5°	4134.7	3969.5	3312.2	2508.7	2085.4	2037.2	2087.1	2133.6	2197.3	2228.2	2200.7
25°	4169.1	3928.2	3092.0	2221.3	1965.0	2006.3	2059.6	2123.3	2168.0	2185.2	2197.3
27.5°	4198.4	3864.6	2794.3	2030.4	1927.1	2004.5	2059.6	2112.9	2137.0	2152.5	2166.3
30°	4281.0	3845.6	2536.2	1903.0	1903.0	1970.1	2040.7	2054.4	2087.1	2106.1	2130.2
32.5°	4322.3	3714.9	2271.2	1822.2	1878.9	1987.3	1992.5	2018.3	2020.0	2035.5	2009.7
35°	4430.7	3622.0	2025.2	1763.7	1889.3	1970.1	1995.9	1980.5	1896.1	1854.9	1863.5
37.5°	4509.8	3575.5	1848.0	1756.8	1891.0	1989.1	2002.8	1885.8	1798.1	1729.2	1746.5
40°	4723.2	3460.2	1713.8	1744.7	1906.5	2009.7	1971.9	1844.5	1686.2	1615.7	1603.6
42.5°	4886.6	3377.6	1629.4	1731.0	1918.5	2039.0	1956.4	1761.9	1600.2	1534.8	1552.0
45°	5075.9	3358.7	1584.7	1734.4	1939.2	2054.4	1937.4	1698.3	1526.2	1500.4	1495.2
47.5°	5143.0	3222.8	1536.5	1705.2	1934.0	2049.3	1873.8	1650.1	1498.7	1502.1	1515.9
50°	5031.2	3083.4	1500.4	1644.9	1899.6	2002.8	1774.0	1586.4	1483.2	1526.2	1550.3
52.5°	4888.3	2940.6	1426.4	1564.1	1829.0	1930.6	1727.5	1583.0	1467.7	1453.9	1459.1
55°	4931.4	2823.6	1323.2	1453.9	1715.5	1796.4	1675.9	1550.3	1429.9	1378.2	1395.4
56°	4792.0	2703.1	1256.1	1385.1	1638.1	1710.3	1650.1	1521.0	1398.9	1364.5	1364.5
57.5°	4398.0	2298.8	1168.3	1275.0	1474.6	1560.6	1600.2	1503.8	1364.5	1304.2	1306.0
60°	3243.4	1634.6	1047.9	1123.6	1221.7	1290.5	1474.6	1455.7	1278.4	1237.1	1221.7
62.5°	1999.4	1194.1	961.8	991.1	1041.0	1097.8	1287.0	1318.0	1187.2	1142.5	1132.2
65°	1120.1	913.7	896.5	908.5	932.6	961.8	1068.5	1137.3	1047.9	979.0	975.6
67.5°	819.0	817.3	831.1	841.4	851.7	851.7	877.5	905.1	893.0	838.0	832.8
70°	727.8	733.0	743.3	745.0	748.5	736.4	715.8	707.2	720.9	686.5	679.7
72.5°	600.5	617.7	629.8	631.5	612.5	597.1	569.5	540.3	530.0	523.1	521.4
75°	461.1	473.2	478.3	476.6	469.7	447.4	414.7	385.4	366.5	345.8	356.2
77.5°	311.4	328.6	337.2	337.2	326.9	292.5	277.0	254.7	235.7	213.4	216.8
80°	218.5	230.6	244.3	242.6	225.4	208.2	185.8	165.2	149.7	132.5	130.8
82.5°	163.5	170.3	177.2	173.8	161.7	144.5	129.0	110.1	92.9	80.9	80.9
85°	58.5	63.7	77.4	80.9	87.8	87.8	74.0	61.9	49.9	41.3	41.3
87.5°	17.2	17.2	18.9	18.9	17.2	18.9	15.5	17.2	18.9	12.0	12.0
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)