

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: P528214

Luminaire Tested: **GALN-SA3B-735-U-T2-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528214
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-14)
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-T2-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13273 lumens
Efficiency: N/A
Efficacy: 109.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

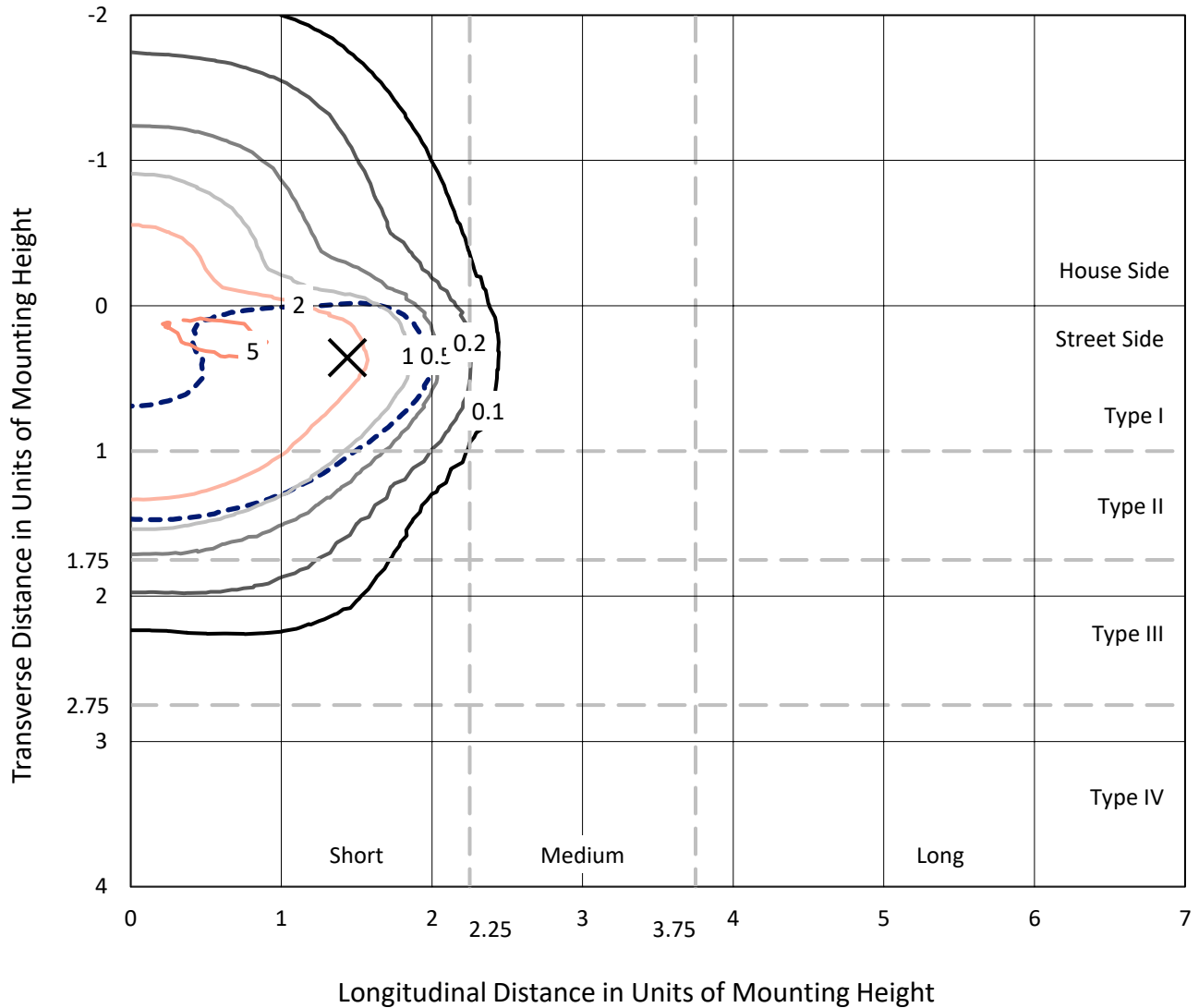
Input Watts (W): 121
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

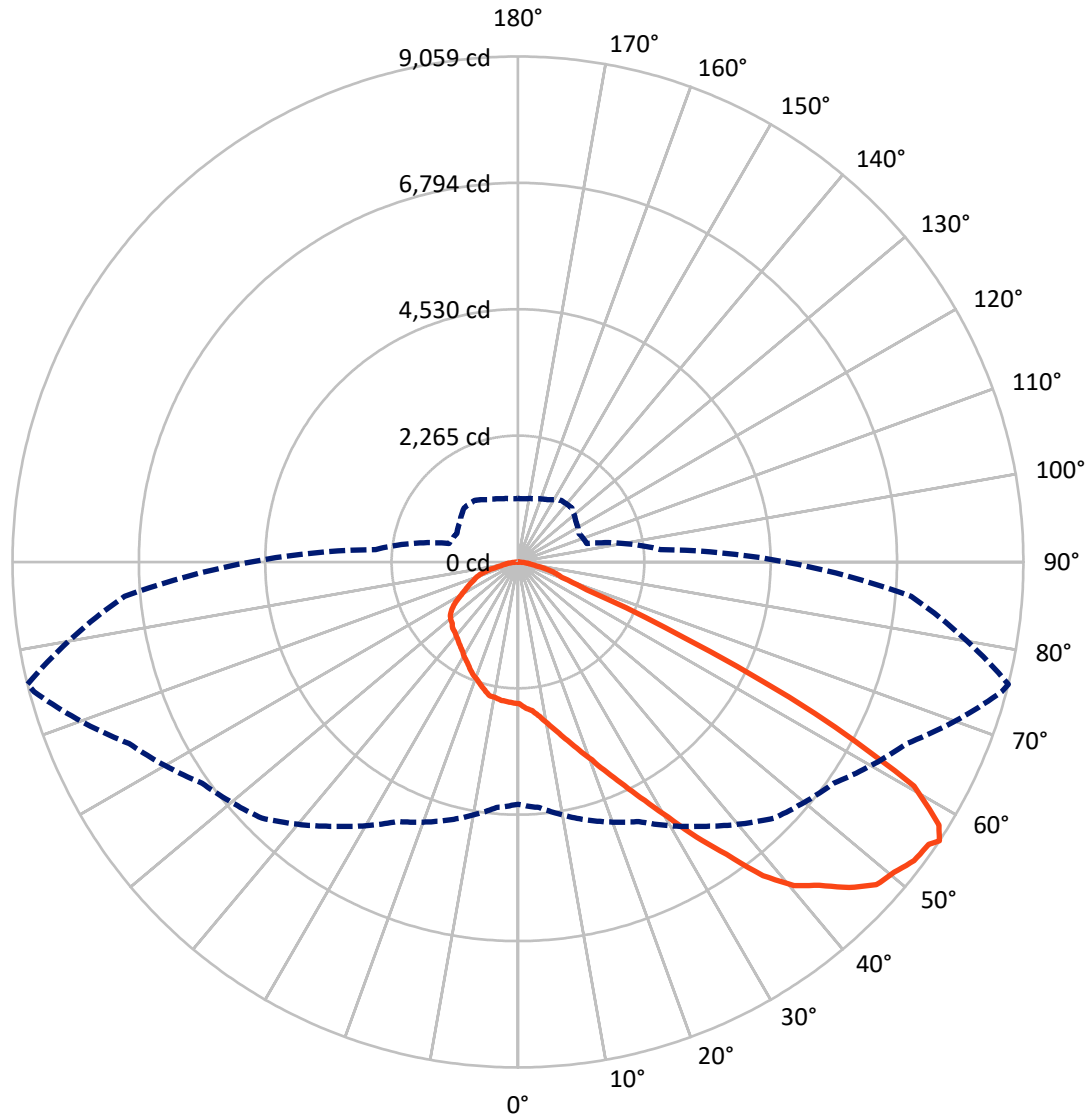
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	3568.7	0.0	3568.7
	% Fixture	26.9	0.0	26.9
Street Side	Lumens	9704.3	0.0	9704.3
	% Fixture	73.1	0.0	73.1
Total	Lumens	13273.0	0.0	13273.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.9	1.9
10°-20°	791.1	6.0
20°-30°	1383.6	10.4
30°-40°	2166.3	16.3
40°-50°	3151.4	23.7
50°-60°	3463.6	26.1
60°-70°	1546.0	11.6
70°-80°	446.5	3.4
80°-90°	72.4	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°	13273.0	100.0
0°-180°	13273.0	100.0

Coefficient of Utilization



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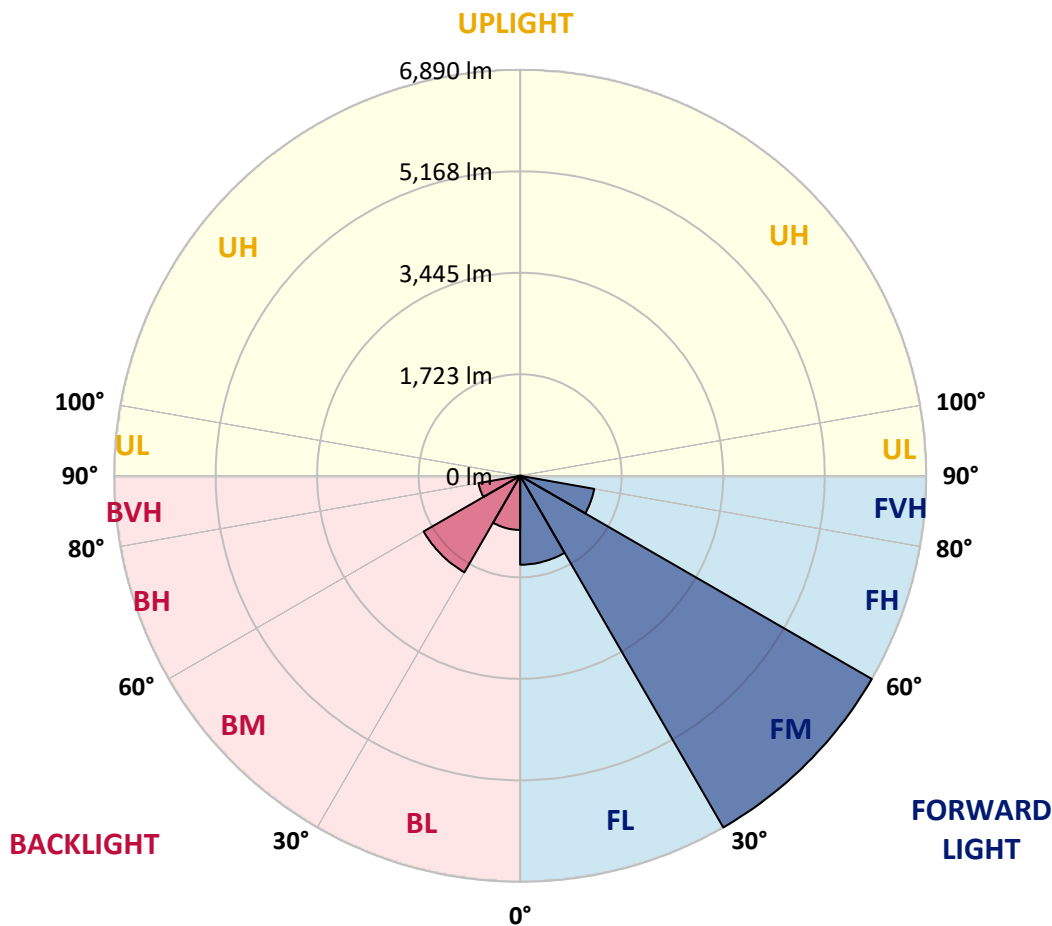
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1508.3	11.4			
FM (30°-60°)	6890.3	51.9			
FH (60°-80°)	1274.5	9.6			G1/1800
FVH (80°-90°)	31.2	0.2			G1/100
BL (0°-30°)	918.3	6.9	B2/1000		
BM (30°-60°)	1891.1	14.2	B2/2500		
BH (60°-80°)	718.0	5.4	B2/1000		G2/1000
BVH (80°-90°)	41.3	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2539.6	2539.6	2539.6	2539.6	2539.6	2539.6	2539.6	2539.6	2539.6	2539.6	2539.6
2.5°	2797.7	2753.0	2749.5	2737.5	2744.4	2713.4	2680.7	2637.7	2593.0	2620.5	2555.1
5°	2993.9	2933.6	2957.7	2916.4	2921.6	2880.3	2813.2	2763.3	2708.2	2675.5	2629.1
7.5°	3062.7	3067.8	3085.1	3078.2	3043.8	3043.8	2999.0	2911.3	2814.9	2796.0	2718.6
10°	3155.6	3157.3	3138.4	3143.6	3191.7	3169.4	3129.8	3091.9	2968.0	2945.7	2808.0
12.5°	3188.3	3157.3	3188.3	3215.8	3272.6	3303.6	3295.0	3267.4	3134.9	3119.5	2918.2
15°	3193.4	3174.5	3200.3	3262.3	3312.2	3442.9	3508.3	3489.4	3313.9	3315.6	3042.0
17.5°	3169.4	3195.2	3205.5	3258.8	3374.1	3496.3	3685.5	3711.4	3566.8	3544.5	3198.6
20°	3202.1	3183.1	3196.9	3245.1	3398.2	3589.2	3837.0	4007.3	3804.3	3788.8	3360.3
22.5°	3327.7	3301.8	3298.4	3329.4	3439.5	3637.4	3997.0	4303.2	4093.3	4101.9	3561.7
25°	3425.7	3439.5	3427.5	3425.7	3494.6	3709.6	4208.6	4656.0	4485.6	4435.7	3799.1
27.5°	3594.4	3627.0	3603.0	3635.6	3620.2	3818.0	4360.0	5046.5	4908.9	4841.8	4014.2
30°	3828.4	3845.6	3823.2	3823.2	3776.7	3969.4	4497.7	5454.3	5397.5	5306.4	4267.1
32.5°	4136.3	4162.2	4117.4	4091.6	4084.7	4194.8	4745.4	5857.0	5953.3	5875.9	4602.6
35°	4544.1	4528.6	4475.3	4451.2	4358.3	4540.7	5113.6	6319.8	6572.7	6435.1	5008.7
37.5°	4903.7	4879.6	4876.2	4742.0	4764.4	4914.1	5426.8	6670.8	7173.2	7133.6	5437.1
40°	5239.3	5261.6	5297.8	5222.0	5187.6	5352.8	5791.6	6939.2	7639.5	7624.0	5767.5
42.5°	5598.9	5578.2	5641.9	5578.2	5526.6	5760.6	6187.3	7125.0	8049.0	7921.7	6113.3
45°	6120.2	6054.8	6077.2	6082.4	6044.5	6130.5	6350.8	7259.2	8336.3	8322.6	6366.3
47.5°	6555.5	6557.2	6519.4	6490.1	6374.9	6460.9	6533.2	7343.6	8666.7	8644.3	6464.3
50°	6717.3	6694.9	6805.0	6868.7	6875.6	6700.0	6676.0	7390.0	8840.5	8742.4	6562.4
52.5°	6135.7	6156.3	6330.1	6708.7	6927.2	6946.1	6842.9	7486.4	8911.0	8890.4	6641.5
55°	4938.1	5037.9	5323.6	5760.6	6278.5	6848.0	7023.5	7586.2	8948.9	8931.7	6992.6
56°	4341.1	4418.5	4790.2	5132.6	5783.0	6491.9	6910.0	7692.8	8978.1	9059.0	7075.1
57.5°	3494.6	3584.0	3850.7	4239.6	5007.0	5813.9	6596.8	7562.1	8864.6	8895.5	7135.4
60°	2185.2	2193.8	2513.8	2770.2	3310.5	4098.5	5034.5	6579.6	8203.9	8159.1	6409.3
62.5°	1433.3	1435.0	1725.8	1935.7	2181.7	2362.4	2962.9	4363.5	6053.1	5974.0	4563.1
65°	1006.6	1028.9	1254.3	1534.8	1634.6	1539.9	1521.0	2300.5	3381.0	3267.4	2451.9
67.5°	736.4	738.1	937.7	1238.8	1383.4	1171.7	951.5	1123.6	1338.6	1335.2	1135.6
70°	486.9	507.6	660.7	925.7	1090.9	941.2	777.7	803.5	851.7	851.7	844.8
72.5°	283.9	302.8	404.3	586.7	612.5	588.4	616.0	688.2	719.2	717.5	708.9
75°	161.7	170.3	192.7	244.3	304.5	359.6	452.5	521.3	552.3	571.2	548.9
77.5°	94.6	99.8	113.6	139.4	158.3	194.4	246.0	294.2	335.5	330.4	333.8
80°	49.9	49.9	63.7	82.6	110.1	137.6	163.5	191.0	213.4	218.5	223.7
82.5°	29.3	31.0	41.3	60.2	79.1	98.1	125.6	144.5	165.2	166.9	170.3
85°	15.5	17.2	25.8	39.6	53.3	60.2	61.9	58.5	63.7	60.2	68.8
87.5°	5.2	5.2	8.6	6.9	6.9	8.6	10.3	10.3	13.8	13.8	13.8
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°	2539.6	2539.6	2539.6	2539.6	2539.6	2539.6	2539.6	2539.6	2539.6	2539.6	2539.6
2.5°	2553.4	2553.4	2524.1	2469.1	2460.5	2438.1	2417.5	2415.7	2400.2	2386.5	2379.6
5°	2601.6	2548.2	2505.2	2455.3	2396.8	2369.3	2338.3	2303.9	2290.1	2303.9	2302.2
7.5°	2656.6	2611.9	2482.8	2389.9	2322.8	2295.3	2260.9	2224.7	2228.2	2228.2	2204.1
10°	2710.0	2649.7	2443.3	2324.5	2226.5	2205.8	2186.9	2200.7	2217.9	2221.3	2205.8
12.5°	2799.4	2663.5	2424.3	2259.2	2197.2	2152.5	2164.5	2202.4	2238.5	2228.2	2240.2
15°	2866.5	2675.5	2338.3	2192.1	2114.6	2135.3	2178.3	2204.1	2264.3	2257.4	2269.5
17.5°	2931.9	2682.4	2254.0	2102.6	2069.9	2126.7	2159.4	2233.3	2252.3	2293.6	2309.1
20°	3066.1	2696.2	2168.0	2047.5	2037.2	2102.6	2159.4	2193.8	2235.1	2271.2	2271.2
22.5°	3134.9	2689.3	2111.2	1975.3	2008.0	2049.2	2100.9	2159.4	2159.4	2193.8	2195.5
25°	3221.0	2661.8	2021.7	1940.8	1964.9	2004.5	2063.0	2042.4	2064.7	2064.7	2092.3
27.5°	3319.1	2603.3	1944.3	1878.9	1927.1	1970.1	1978.7	1964.9	1939.1	1935.7	1925.4
30°	3398.2	2531.0	1887.5	1858.3	1897.8	1921.9	1894.4	1865.1	1820.4	1817.0	1792.9
32.5°	3506.6	2441.5	1817.0	1806.6	1851.4	1853.1	1844.5	1799.8	1734.4	1706.8	1679.3
35°	3689.0	2389.9	1763.6	1779.1	1792.9	1787.7	1772.2	1724.0	1658.7	1646.6	1636.3
37.5°	3823.2	2352.1	1708.6	1727.5	1739.5	1746.4	1700.0	1646.6	1648.3	1624.3	1617.4
40°	3974.6	2328.0	1663.8	1672.4	1674.2	1696.5	1639.7	1613.9	1626.0	1610.5	1620.8
42.5°	4169.0	2334.9	1617.4	1610.5	1643.2	1634.6	1607.0	1572.6	1579.5	1533.1	1539.9
45°	4272.3	2381.3	1589.8	1558.9	1595.0	1593.3	1557.2	1524.5	1483.2	1393.7	1397.1
47.5°	4341.1	2393.4	1524.5	1503.8	1541.7	1564.0	1522.7	1447.0	1388.5	1324.9	1309.4
50°	4411.6	2415.7	1493.5	1450.5	1466.0	1519.3	1467.7	1395.4	1338.6	1281.9	1290.5
52.5°	4473.6	2458.7	1433.3	1369.6	1397.1	1455.6	1428.1	1340.4	1278.4	1232.0	1218.2
55°	4748.9	2555.1	1331.8	1249.2	1314.5	1388.5	1373.0	1266.4	1199.3	1175.2	1171.7
56°	4791.9	2558.5	1278.4	1207.9	1268.1	1366.2	1347.2	1233.7	1173.5	1135.6	1137.3
57.5°	4798.8	2517.3	1202.7	1170.0	1221.6	1333.5	1309.4	1207.9	1125.3	1090.9	1080.5
60°	4222.4	1964.9	1108.1	1087.4	1147.6	1233.7	1225.1	1137.3	1044.4	1004.8	1023.8
62.5°	2878.6	1440.1	1034.1	1030.6	1061.6	1145.9	1123.6	1044.4	967.0	941.2	929.1
65°	1675.9	1092.6	961.8	948.1	973.9	1018.6	1034.1	951.5	870.6	853.4	848.3
67.5°	989.3	903.3	868.9	846.5	837.9	865.5	877.5	829.3	748.5	724.4	745.0
70°	827.6	803.5	805.2	767.4	746.7	727.8	717.5	674.5	607.4	576.4	567.8
72.5°	714.1	703.7	696.8	662.4	643.5	600.5	555.8	512.7	462.8	437.0	438.8
75°	545.4	542.0	545.4	528.2	495.5	461.1	419.8	364.8	326.9	294.2	301.1
77.5°	325.2	335.5	340.7	333.8	320.0	289.1	263.3	227.1	191.0	165.2	161.7
80°	223.7	232.3	240.9	232.3	218.5	196.1	168.6	141.1	115.3	101.5	98.1
82.5°	170.3	178.9	184.1	175.5	158.3	134.2	115.3	96.4	75.7	61.9	58.5
85°	61.9	70.5	68.8	82.6	89.5	86.0	74.0	56.8	43.0	31.0	29.3
87.5°	17.2	15.5	17.2	17.2	17.2	15.5	13.8	13.8	13.8	8.6	6.9
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)