

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: P458821

Luminaire Tested: **GALN-SA3C-735-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458821
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3C-735-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19662 lumens
Efficiency: N/A
Efficacy: 122.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

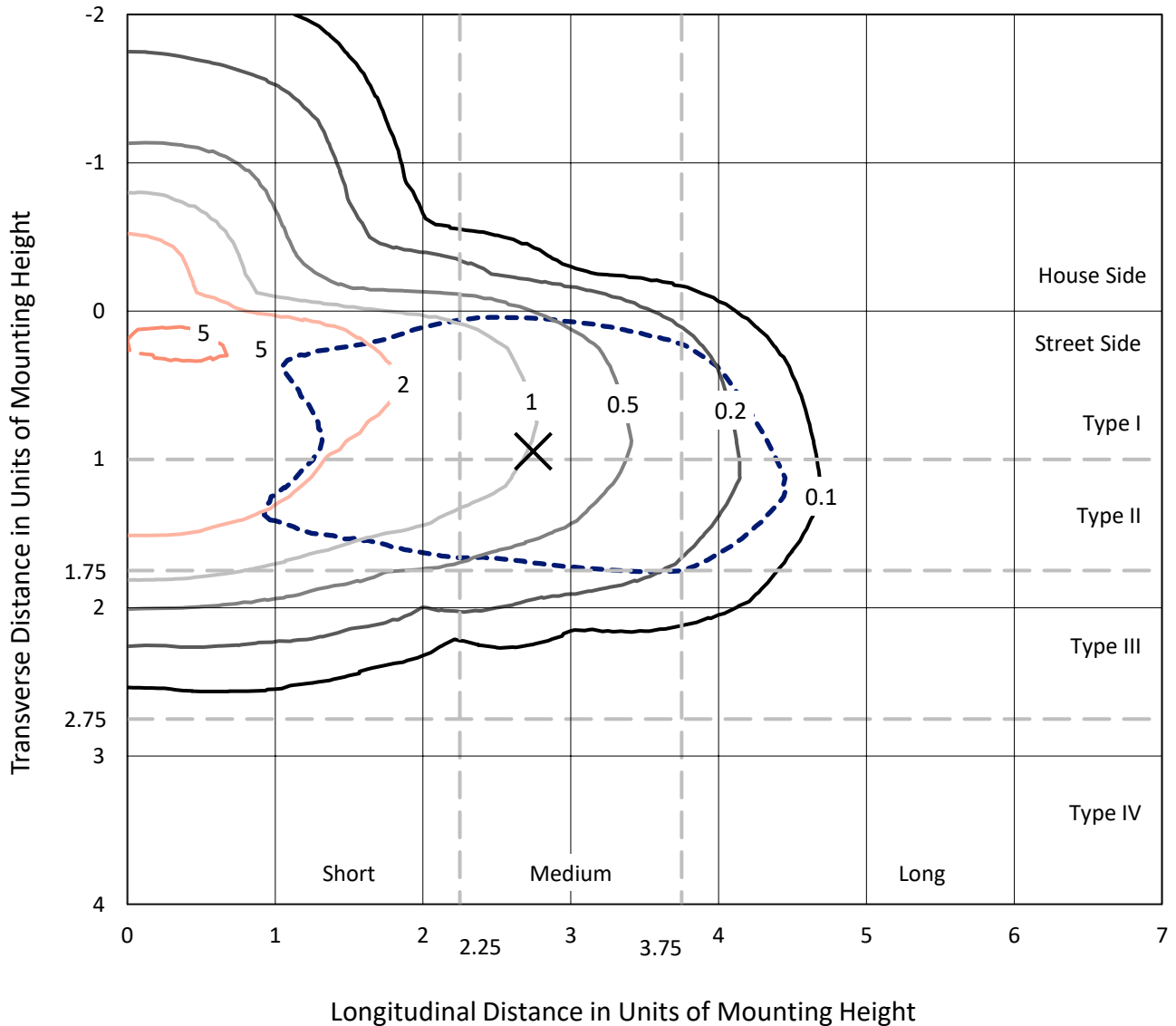
Input Watts (W): 160
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

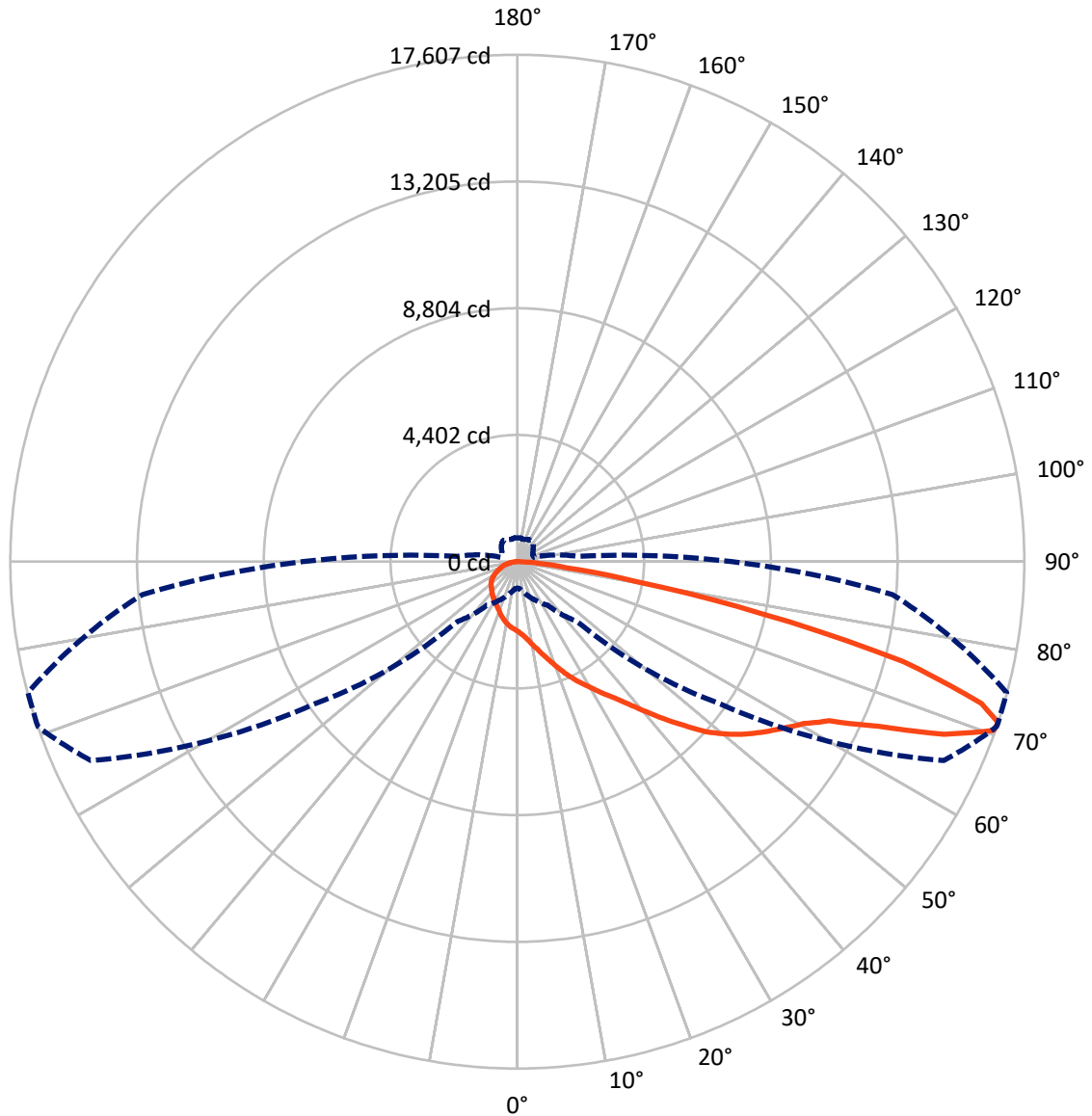
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3536.2	0.0	3536.2
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	16125.8	0.0	16125.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	19662.0	0.0	19662.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	242.3	1.2
10°-20°	787.2	4.0
20°-30°	1375.7	7.0
30°-40°	2046.2	10.4
40°-50°	3014.7	15.3
50°-60°	4220.7	21.5
60°-70°	4720.7	24.0
70°-80°	2883.6	14.7
80°-90°	370.9	1.9
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°	19662.0	100.0
0°-180°	19662.0	100.0

Coefficient of Utilization



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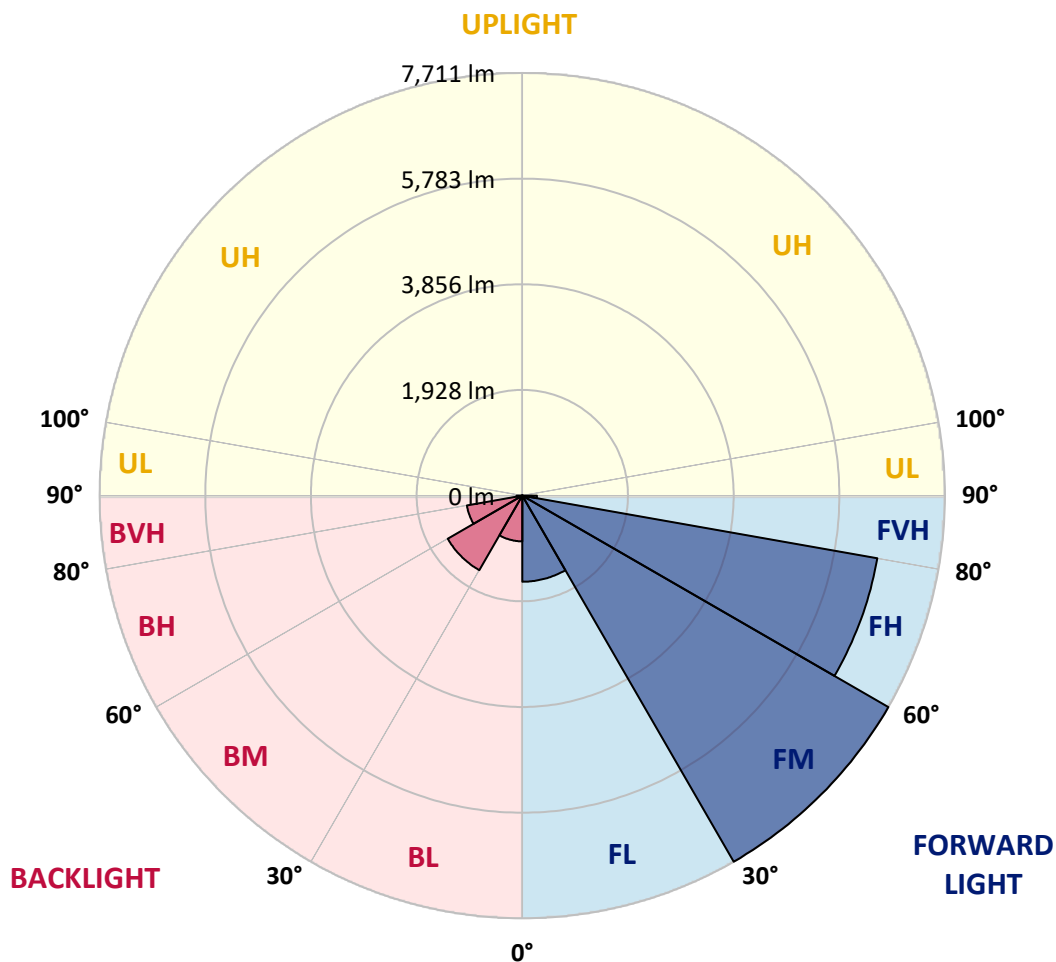
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1571.0	8.0			
FM (30°-60°)	7711.0	39.2			
FH (60°-80°)	6576.9	33.4			G3/7500
FVH (80°-90°)	266.9	1.4			G3/500
BL (0°-30°)	834.2	4.2	B2/1000		
BM (30°-60°)	1570.5	8.0	B2/2500		
BH (60°-80°)	1027.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	104.0	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1
2.5°	2679.0	2666.0	2667.1	2648.7	2624.9	2599.0	2562.3	2529.8	2503.9	2488.8	2444.5
5°	2968.6	2955.6	2939.4	2899.4	2882.1	2818.4	2737.3	2663.8	2607.6	2576.3	2487.7
7.5°	3203.1	3199.8	3195.5	3172.8	3128.5	3039.9	2970.7	2843.2	2760.0	2700.6	2549.3
10°	3347.9	3353.3	3356.5	3360.9	3342.5	3296.0	3200.9	3039.9	2934.0	2858.4	2629.3
12.5°	3421.4	3426.8	3445.2	3485.1	3510.0	3504.6	3426.8	3269.0	3123.1	3023.7	2714.6
15°	3466.8	3475.4	3507.8	3560.8	3644.0	3697.0	3659.1	3513.2	3353.3	3235.5	2816.2
17.5°	3516.5	3526.2	3561.9	3637.5	3746.7	3861.2	3902.3	3776.9	3602.9	3462.4	2929.7
20°	3544.6	3557.5	3608.3	3707.8	3835.3	4001.7	4137.9	4071.9	3881.7	3726.1	3060.4
22.5°	3590.0	3600.8	3644.0	3749.9	3902.3	4110.8	4373.4	4359.4	4191.9	3990.9	3204.2
25°	3713.2	3730.5	3752.1	3815.8	3962.8	4222.2	4569.0	4666.3	4492.3	4267.5	3336.0
27.5°	3945.5	3959.6	3958.5	3967.1	4050.3	4318.3	4738.7	4970.0	4790.6	4547.4	3463.5
30°	4210.3	4215.7	4220.0	4200.5	4218.9	4416.7	4894.3	5270.4	5091.0	4834.9	3574.8
32.5°	4532.3	4543.1	4506.4	4456.7	4441.5	4562.6	5022.9	5570.8	5446.5	5126.7	3685.1
35°	4912.7	4940.8	4866.2	4778.7	4717.1	4772.2	5195.8	5877.7	5810.7	5499.5	3831.0
37.5°	5347.1	5381.7	5312.5	5140.7	5053.2	5068.3	5421.7	6257.0	6271.1	5924.2	4048.2
40°	5702.7	5748.1	5750.2	5507.1	5374.1	5391.4	5708.1	6665.5	6826.6	6449.4	4304.3
42.5°	5937.2	5981.5	6027.9	5885.3	5745.9	5844.2	6042.0	7108.6	7451.2	7087.0	4662.0
45°	6194.4	6234.4	6260.3	6195.4	6117.6	6372.7	6445.1	7579.8	8116.9	7799.2	5053.2
47.5°	6492.6	6536.9	6561.8	6500.2	6471.0	6836.3	6879.5	8019.6	8827.9	8490.8	5485.5
50°	6890.3	6923.8	6910.8	6871.9	6865.5	7191.8	7296.6	8431.3	9414.7	9235.4	5933.9
52.5°	7385.3	7425.2	7439.3	7384.2	7359.3	7445.8	7632.7	8806.3	9948.6	9875.1	6412.7
55°	7684.6	7748.4	7962.3	8048.8	8108.2	7774.3	7994.8	9220.2	10427.3	10549.4	6927.1
57.5°	7301.0	7383.1	7861.8	8294.1	8852.8	8595.6	8508.1	9652.5	10906.1	11203.2	7543.0
60°	6365.1	6383.5	7000.5	7797.0	8920.9	9651.4	9579.0	10339.8	11424.8	11862.4	8354.6
62.5°	4415.6	4454.5	5183.9	6454.8	8080.1	10031.8	11401.0	11526.4	12168.3	12849.1	9544.4
65°	2277.0	2226.2	2890.8	4056.8	6091.7	9128.4	12877.2	13708.2	13780.6	14392.3	11219.5
67.5°	1401.6	1424.3	1735.5	2368.8	3601.9	6634.2	12722.7	16374.2	15992.7	16286.7	12774.5
70°	1052.6	1080.7	1294.6	1621.0	2195.9	3793.1	10231.7	17020.5	17553.2	17477.6	13247.9
71°	915.3	944.5	1167.1	1475.1	1844.7	2927.5	8620.5	16344.0	17607.3	17594.3	13069.6
72.5°	780.2	798.6	972.6	1249.2	1555.1	2052.2	6476.4	14658.1	16856.2	17287.4	12433.0
75°	612.7	626.8	704.6	953.1	1224.4	1260.1	3475.4	10989.3	13844.4	14665.7	10350.6
77.5°	499.3	509.0	549.0	707.8	944.5	892.6	1823.1	7152.9	8673.4	9500.1	6097.1
80°	396.6	407.4	431.2	479.8	707.8	636.5	869.9	3624.5	4189.7	4181.1	2433.7
82.5°	308.0	311.2	339.3	352.3	484.1	451.7	471.2	1534.5	1699.9	1756.1	878.6
85°	194.5	204.2	300.4	270.2	289.6	264.8	232.3	609.5	751.1	740.3	351.2
87.5°	59.4	62.7	101.6	114.6	128.6	115.6	85.4	179.4	219.4	237.7	87.5
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°	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1	2413.1
2.5°	2427.2	2415.3	2373.1	2338.6	2306.1	2270.5	2240.2	2231.6	2224.0	2220.8	2219.7
5°	2449.9	2414.2	2331.0	2262.9	2208.9	2159.2	2127.8	2113.8	2099.7	2099.7	2104.1
7.5°	2482.3	2417.4	2288.8	2187.3	2119.2	2072.7	2050.0	2047.9	2051.1	2054.3	2055.4
10°	2517.9	2415.3	2227.2	2100.8	2040.3	2018.7	2019.8	2038.1	2055.4	2068.4	2070.6
12.5°	2552.5	2402.3	2154.8	2019.8	1980.9	1985.2	2015.4	2056.5	2090.0	2108.4	2109.5
15°	2591.4	2381.8	2067.3	1943.0	1930.1	1963.6	2019.8	2082.4	2133.2	2163.5	2166.7
17.5°	2623.9	2347.2	1975.5	1868.5	1884.7	1946.3	2024.1	2105.1	2166.7	2204.6	2211.0
20°	2660.6	2302.9	1880.4	1797.1	1843.6	1926.8	2015.4	2103.0	2166.7	2203.5	2212.1
22.5°	2689.8	2240.2	1789.6	1738.8	1806.9	1903.0	1986.3	2056.5	2108.4	2127.8	2140.8
25°	2701.7	2161.3	1704.2	1691.2	1777.7	1864.1	1920.3	1960.3	1976.5	1974.4	1979.8
27.5°	2695.2	2070.6	1630.7	1653.4	1740.9	1803.6	1831.7	1828.5	1799.3	1772.3	1785.3
30°	2668.2	1962.5	1569.1	1614.5	1693.4	1728.0	1723.7	1681.5	1626.4	1575.6	1578.9
32.5°	2619.5	1845.8	1511.8	1570.2	1626.4	1641.5	1612.4	1557.2	1478.3	1412.4	1402.7
35°	2578.5	1734.5	1461.1	1519.4	1559.4	1551.8	1523.7	1452.4	1381.1	1322.7	1313.0
37.5°	2572.0	1639.4	1412.4	1462.1	1484.8	1474.0	1439.4	1378.9	1353.0	1308.7	1303.3
40°	2606.6	1572.4	1362.7	1401.6	1412.4	1403.8	1366.0	1331.4	1355.2	1344.3	1344.3
42.5°	2700.6	1536.7	1318.4	1341.1	1349.7	1356.2	1329.2	1300.0	1329.2	1279.5	1263.3
45°	2849.7	1537.8	1278.4	1281.7	1307.6	1330.3	1311.9	1268.7	1253.6	1154.1	1134.7
47.5°	3069.1	1574.5	1246.0	1225.5	1271.9	1309.8	1283.8	1221.2	1154.1	1088.2	1076.3
50°	3325.2	1640.4	1216.8	1167.1	1224.4	1283.8	1264.4	1190.9	1121.7	1081.7	1074.2
52.5°	3609.4	1723.7	1181.2	1102.3	1166.0	1271.9	1268.7	1186.6	1091.5	1064.5	1058.0
55°	3960.6	1805.8	1136.9	1026.6	1114.2	1262.2	1256.8	1150.9	1085.0	1065.5	1063.4
57.5°	4369.1	1924.7	1073.1	949.9	1054.7	1222.2	1210.3	1129.3	1063.4	1049.3	1048.2
60°	5027.2	2109.5	982.3	879.7	994.2	1152.0	1167.1	1092.6	1028.8	1025.6	1024.5
62.5°	5892.9	2368.8	888.3	807.3	924.0	1061.2	1104.4	1042.8	992.0	1008.3	1010.4
65°	7088.1	2587.1	791.0	745.7	846.2	973.7	1045.0	996.4	951.0	982.3	982.3
67.5°	7867.2	2591.4	702.4	681.9	767.3	900.2	982.3	941.3	898.0	951.0	953.1
70°	7705.1	2270.5	628.9	614.9	690.5	821.3	913.2	880.7	831.0	878.6	861.3
71°	7443.6	2092.2	599.8	589.0	660.3	783.5	880.7	853.7	804.0	835.4	825.6
72.5°	7026.5	1816.6	552.2	554.4	614.9	735.9	835.4	807.3	757.5	774.8	771.6
75°	5939.3	1586.4	472.3	482.0	528.4	654.9	744.6	723.0	672.2	672.2	668.9
77.5°	3713.2	1108.8	392.3	397.7	448.5	560.9	639.8	621.4	572.8	556.5	552.2
80°	1385.4	572.8	306.9	313.4	344.7	442.0	529.5	512.2	462.5	444.2	426.9
82.5°	524.1	287.5	225.9	220.5	254.0	337.2	415.0	394.4	355.5	311.2	298.3
85°	197.8	142.6	138.3	134.0	149.1	199.9	257.2	252.9	211.8	180.5	177.2
87.5°	51.9	46.5	54.0	40.0	42.1	37.8	38.9	16.2	7.6	3.2	2.2
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)