

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: P454399

Luminaire Tested: **GALN-SA5C-730-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454399
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 32378 lumens
Efficiency: N/A
Efficacy: 120.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

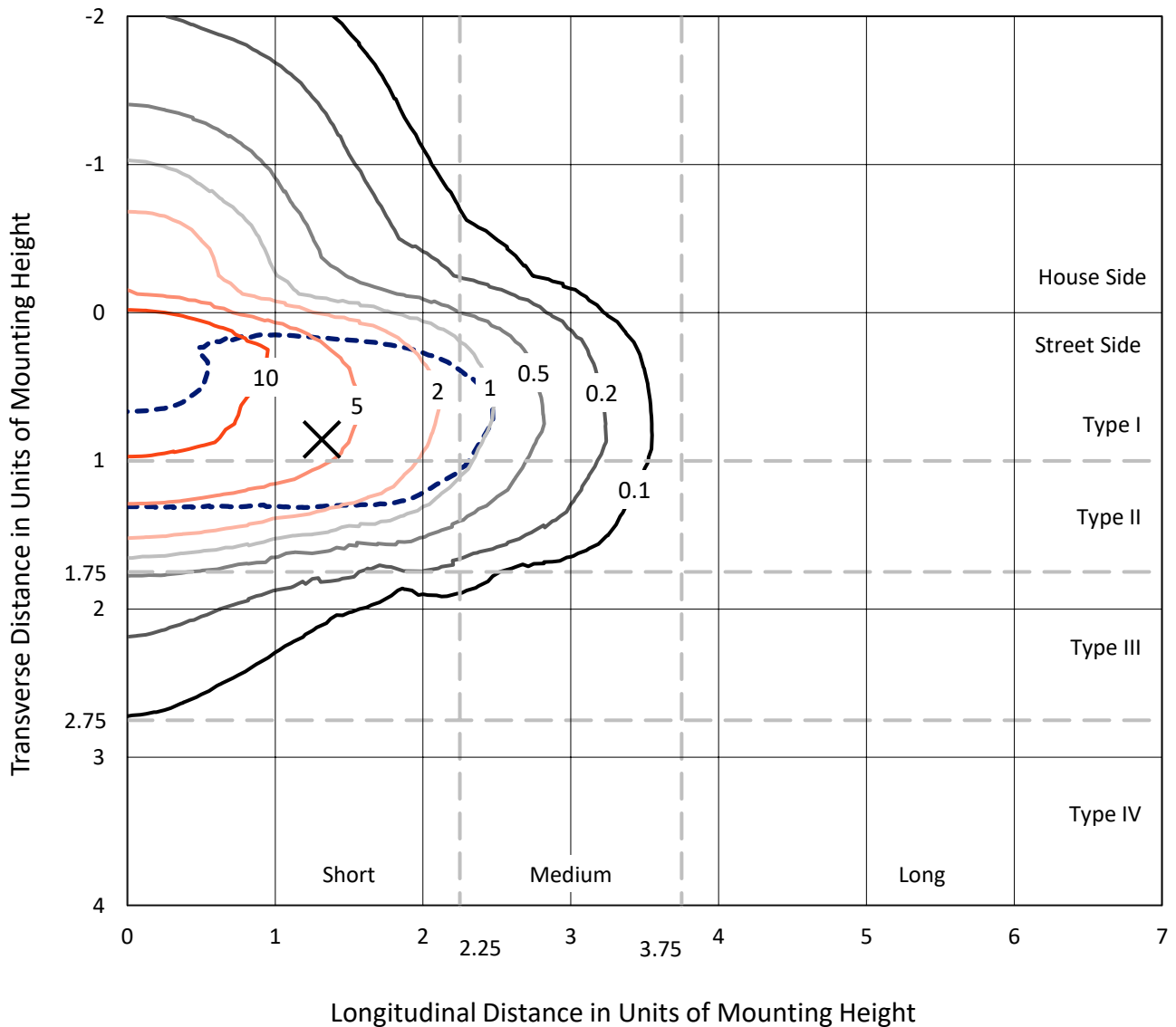
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

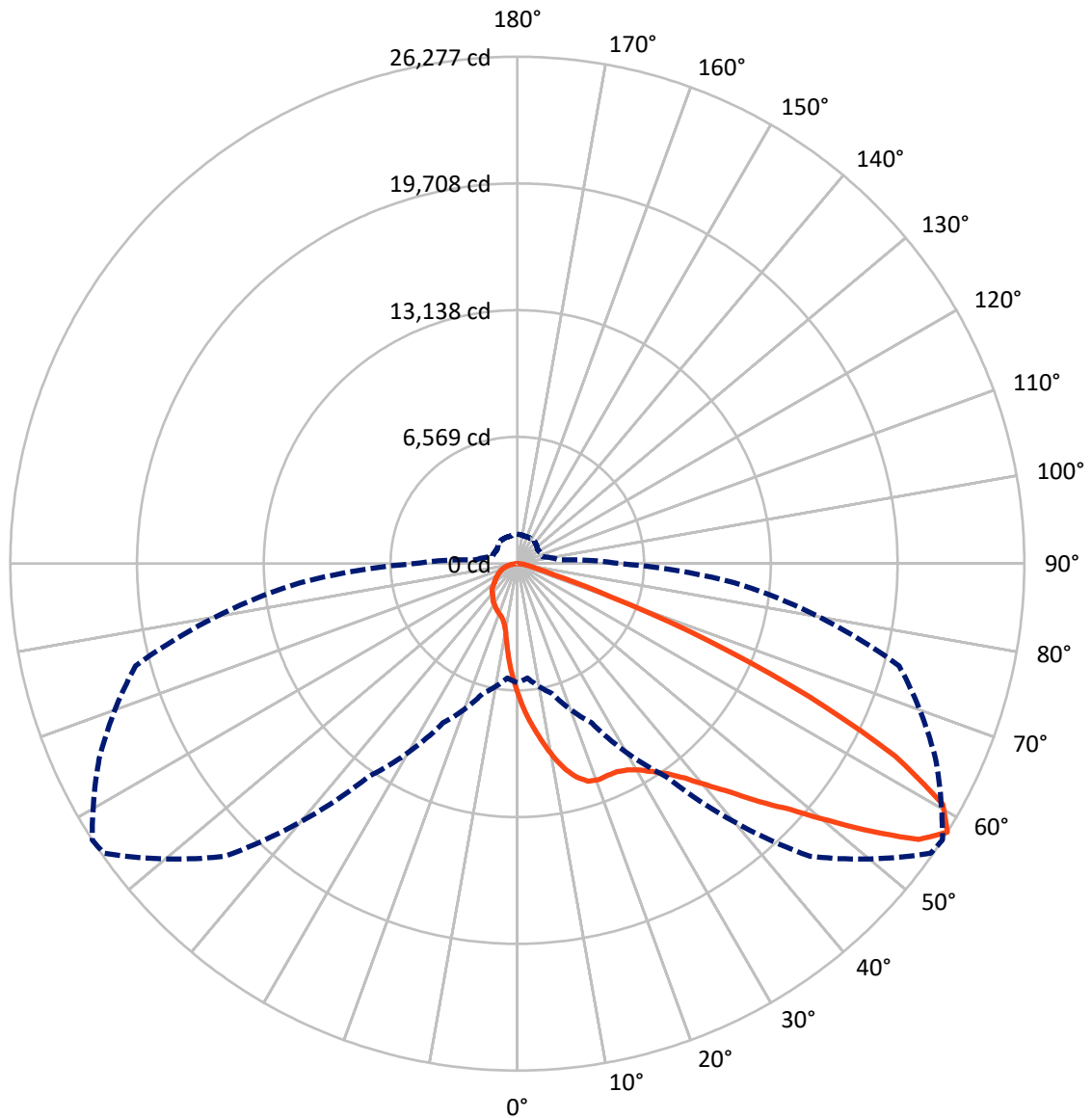
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 57-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4923.8	0.0	4923.8
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	27454.2	0.0	27454.2
	% Fixture	84.8	0.0	84.8
Total	Lumens	32378.0	0.0	32378.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	653.8	2.0
10°-20°	1926.7	6.0
20°-30°	3199.3	9.9
30°-40°	4819.0	14.9
40°-50°	7235.3	22.3
50°-60°	8109.9	25.0
60°-70°	4746.3	14.7
70°-80°	1403.9	4.3
80°-90°	283.8	0.9
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°	32378.0	100.0
0°-180°	32378.0	100.0

Coefficient of Utilization



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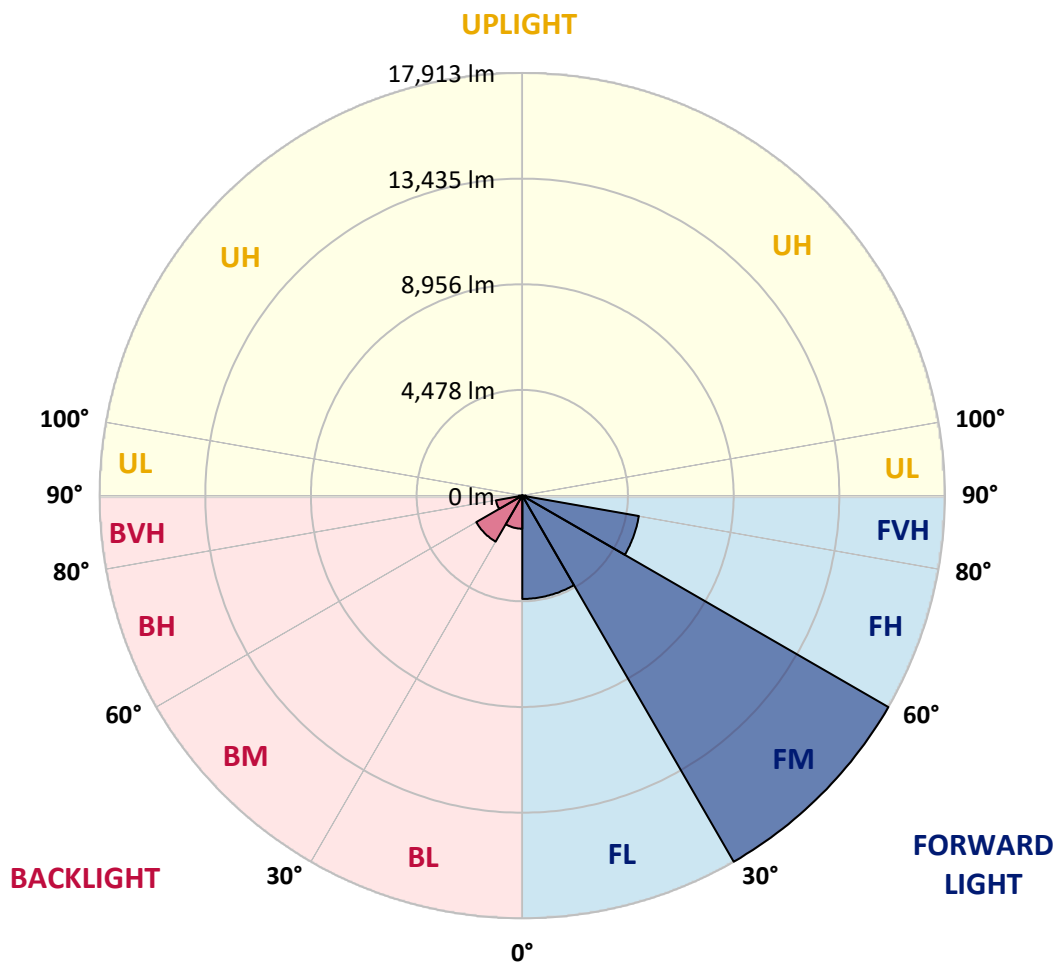
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4376.8	13.5			
FM	(30°-60°)	17912.9	55.3			
FH	(60°-80°)	5017.3	15.5			G3/7500
FVH	(80°-90°)	147.2	0.5			G2/225
BL	(0°-30°)	1403.0	4.3	B3/2500		
BM	(30°-60°)	2251.3	7.0	B2/2500		
BH	(60°-80°)	1132.9	3.5	B3/2500		G3/2500
BVH	(80°-90°)	136.5	0.4			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	57°	65°	75°	85°
0°	6802.2	6802.2	6802.2	6802.2	6802.2	6802.2	6802.2	6802.2	6802.2	6802.2	6802.2
2.5°	8452.3	8360.1	8287.5	8223.7	8140.4	7915.3	7690.2	7686.6	7507.6	7231.2	6947.6
5°	9829.4	9705.3	9721.3	9522.8	9324.3	8998.2	8521.4	8496.6	8115.6	7598.0	7071.6
7.5°	10726.2	10728.0	10678.4	10564.9	10350.5	9980.1	9439.5	9317.2	8787.3	8002.1	7213.4
10°	10680.1	10728.0	10811.3	10908.8	10974.3	10791.8	10299.1	10150.2	9460.8	8491.3	7371.2
12.5°	10066.9	10141.3	10260.1	10504.7	10899.9	11201.2	11032.8	10912.3	10240.6	8978.7	7544.9
15°	9684.1	9728.4	9794.0	9958.8	10384.1	11105.5	11541.5	11477.7	10976.1	9529.9	7739.8
17.5°	9567.1	9611.4	9632.7	9733.7	10036.8	10775.8	11741.8	11855.2	11628.3	10036.8	7936.5
20°	9684.1	9705.3	9705.3	9765.6	10003.1	10582.7	11732.9	11961.5	12163.6	10644.7	8120.9
22.5°	9990.7	9999.6	9987.1	10008.4	10185.6	10635.8	11649.6	11933.2	12596.0	11160.4	8264.4
25°	10488.7	10502.9	10421.4	10371.7	10501.1	10869.8	11695.7	11956.2	12934.5	11653.1	8360.1
27.5°	11054.1	11071.8	10972.6	10857.4	10917.6	11158.7	11876.5	12110.4	13188.0	12138.8	8420.4
30°	11747.1	11754.2	11587.6	11449.3	11410.3	11589.3	12184.8	12402.8	13503.5	12711.2	8510.8
32.5°	12456.0	12509.2	12294.7	12099.8	12034.2	12089.1	12640.3	12851.2	13879.2	13326.2	8656.1
35°	13420.2	13429.0	13172.0	12934.5	12718.3	12789.2	13223.4	13375.9	14398.5	14036.9	8861.7
37.5°	14623.6	14705.1	14350.7	13907.6	13641.7	13538.9	13928.8	14095.4	15126.9	14908.9	9171.9
40°	15959.9	15990.1	15687.0	15410.5	14924.9	14627.1	14896.5	15077.3	16025.5	15949.3	9531.7
42.5°	16800.0	16865.6	16888.6	16860.3	16495.2	15995.4	16098.2	16183.3	17088.9	16925.9	9900.3
45°	17083.6	17181.1	17510.7	18209.0	18248.0	17755.3	17516.1	17597.6	18248.0	17911.3	10253.0
47.5°	16613.9	16780.5	17388.4	18820.5	19892.8	19930.0	19208.6	19029.6	19304.3	18728.3	10508.2
50°	15399.9	15435.3	16365.8	18439.4	20663.7	22008.9	21262.8	20929.6	20307.5	19332.7	10683.7
52.5°	13521.2	13562.0	14341.8	16668.9	20188.7	23462.3	23666.1	23070.6	21326.6	19802.4	10798.9
55°	10036.8	10272.5	11130.3	13379.4	17937.9	23325.8	25576.7	25238.1	22558.4	20174.6	10979.7
57.5°	6171.3	5955.1	6972.4	9102.7	13491.1	21450.7	26166.9	26276.7	23914.2	20486.5	11282.7
60°	2839.3	2881.8	3301.9	4694.9	8223.7	16780.5	24646.2	25340.9	24663.9	20475.9	11358.9
62.5°	1956.7	1917.7	1811.3	2061.2	3750.3	10612.8	20817.9	21994.8	23161.0	19839.6	11055.9
65°	1749.3	1710.3	1504.7	1435.6	1722.7	4625.8	15134.0	16619.2	19501.1	18233.9	10300.8
67.5°	1634.1	1580.9	1368.2	1233.5	1230.0	1841.5	8923.7	10712.0	14464.1	15415.8	8925.5
70°	1513.6	1471.0	1260.1	1111.3	1047.5	1157.3	3922.2	5134.5	9391.6	11109.0	6952.9
72.5°	1393.1	1343.4	1153.8	994.3	911.0	866.7	1502.9	1954.9	5306.4	6660.5	4262.5
75°	1217.6	1192.8	1031.5	900.3	810.0	700.1	953.5	1088.2	2538.0	3059.1	2139.2
77.5°	1065.2	1038.6	916.3	786.9	721.3	568.9	677.0	739.1	1070.5	1240.6	965.9
80°	779.8	806.4	772.7	694.8	643.4	446.6	455.5	506.9	636.3	703.6	590.2
82.5°	494.5	544.1	595.5	535.2	487.4	352.7	315.5	335.0	434.2	460.8	262.3
85°	207.4	210.9	345.6	326.1	278.3	209.1	189.6	200.3	232.2	242.8	122.3
87.5°	79.8	78.0	122.3	113.4	86.8	60.3	60.3	67.3	92.2	85.1	39.0
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°	6802.2	6802.2	6802.2	6802.2	6802.2	6802.2	6802.2	6802.2	6802.2	6802.2	6802.2
2.5°	6825.3	6699.5	6449.6	6139.4	5912.5	5657.3	5432.2	5270.9	5210.7	5182.3	5129.2
5°	6820.0	6571.8	6054.3	5512.0	5076.0	4629.4	4251.8	4007.3	3986.0	3822.9	3807.0
7.5°	6821.7	6442.5	5618.3	4820.8	4156.1	3698.9	3386.9	3305.4	3207.9	3183.1	3195.5
10°	6827.1	6277.6	5150.4	4136.6	3493.3	3193.8	3076.8	3044.9	3048.4	3059.1	3060.8
12.5°	6834.1	6118.1	4664.8	3617.3	3121.1	2997.0	2984.6	3013.0	3043.1	3066.2	3071.5
15°	6843.0	5935.6	4191.6	3199.1	2935.0	2924.4	2965.1	3013.0	3055.5	3089.2	3094.5
17.5°	6832.4	5722.9	3794.6	2942.1	2832.2	2883.6	2950.9	3011.2	3050.2	3082.1	3085.6
20°	6807.6	5485.4	3411.8	2761.3	2768.4	2851.7	2924.4	2981.1	3023.6	3039.6	3052.0
22.5°	6711.9	5201.8	3078.6	2621.3	2692.2	2807.4	2894.2	2927.9	2880.1	2846.4	2855.2
25°	6548.8	4833.2	2768.4	2507.9	2623.1	2745.4	2834.0	2752.4	2713.5	2699.3	2706.4
27.5°	6345.0	4429.1	2534.4	2389.1	2534.4	2676.2	2651.4	2637.2	2619.5	2596.5	2601.8
30°	6125.2	4033.8	2335.9	2297.0	2438.7	2520.3	2530.9	2553.9	2534.4	2499.0	2513.2
32.5°	5921.4	3661.7	2185.3	2219.0	2371.4	2359.0	2438.7	2465.3	2374.9	2256.2	2261.5
35°	5747.7	3316.1	2071.9	2142.8	2256.2	2261.5	2341.3	2249.1	2151.6	2094.9	2098.5
37.5°	5616.6	3046.7	1997.4	2077.2	2109.1	2176.4	2133.9	2086.0	2073.6	2034.6	2036.4
40°	5538.6	2810.9	1949.6	2025.8	2020.5	2066.6	1930.1	1977.9	1995.7	1983.3	1985.0
42.5°	5460.6	2644.3	1900.0	1954.9	1953.1	1862.7	1832.6	1873.4	1919.4	1924.8	1921.2
45°	5398.6	2515.0	1848.6	1846.8	1882.2	1740.4	1731.6	1756.4	1822.0	1853.9	1852.1
47.5°	5329.4	2406.8	1770.6	1720.9	1731.6	1664.2	1650.1	1660.7	1740.4	1791.8	1806.0
50°	5242.6	2298.7	1673.1	1605.7	1561.4	1593.3	1596.9	1598.7	1678.4	1736.9	1749.3
52.5°	5173.5	2217.2	1561.4	1511.8	1458.6	1529.5	1556.1	1559.7	1607.5	1655.4	1664.2
55°	5214.2	2171.1	1451.5	1416.1	1368.2	1464.0	1515.4	1522.4	1533.1	1568.5	1573.8
57.5°	5336.5	2181.8	1362.9	1316.8	1281.4	1386.0	1472.8	1478.1	1471.0	1513.6	1520.7
60°	5373.7	2176.4	1297.4	1207.0	1185.7	1302.7	1410.8	1421.4	1419.6	1481.7	1494.1
62.5°	5217.8	2109.1	1231.8	1114.8	1100.6	1217.6	1323.9	1366.5	1375.3	1464.0	1479.9
65°	4850.9	1970.8	1144.9	1017.3	1017.3	1127.2	1240.6	1299.1	1323.9	1442.7	1460.4
67.5°	4367.0	1807.8	1056.3	934.0	930.5	1040.4	1152.0	1212.3	1251.3	1412.6	1423.2
70°	3624.4	1588.0	946.4	843.6	843.6	942.9	1043.9	1116.6	1173.3	1355.8	1355.8
72.5°	2483.1	1320.4	813.5	740.8	742.6	834.8	937.6	1019.1	1086.4	1242.4	1246.0
75°	1570.3	1031.5	668.2	631.0	638.0	724.9	831.2	916.3	1051.0	1228.2	1233.5
77.5°	834.8	724.9	531.7	522.8	531.7	611.5	730.2	847.2	1054.5	1065.2	1047.5
80°	540.6	514.0	420.0	402.3	405.9	492.7	650.4	804.6	847.2	857.8	818.8
82.5°	294.2	326.1	297.8	280.0	280.0	384.6	554.7	639.8	607.9	505.1	482.1
85°	125.8	152.4	154.2	134.7	129.4	237.5	372.2	349.2	324.3	310.2	306.6
87.5°	35.4	49.6	49.6	37.2	28.4	65.6	74.4	21.3	0.0	1.8	3.5
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)