

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: P454631

Luminaire Tested: **GALN-SA5D-730-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454631
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-SA5D-730-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35627 lumens
Efficiency: N/A
Efficacy: 115.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

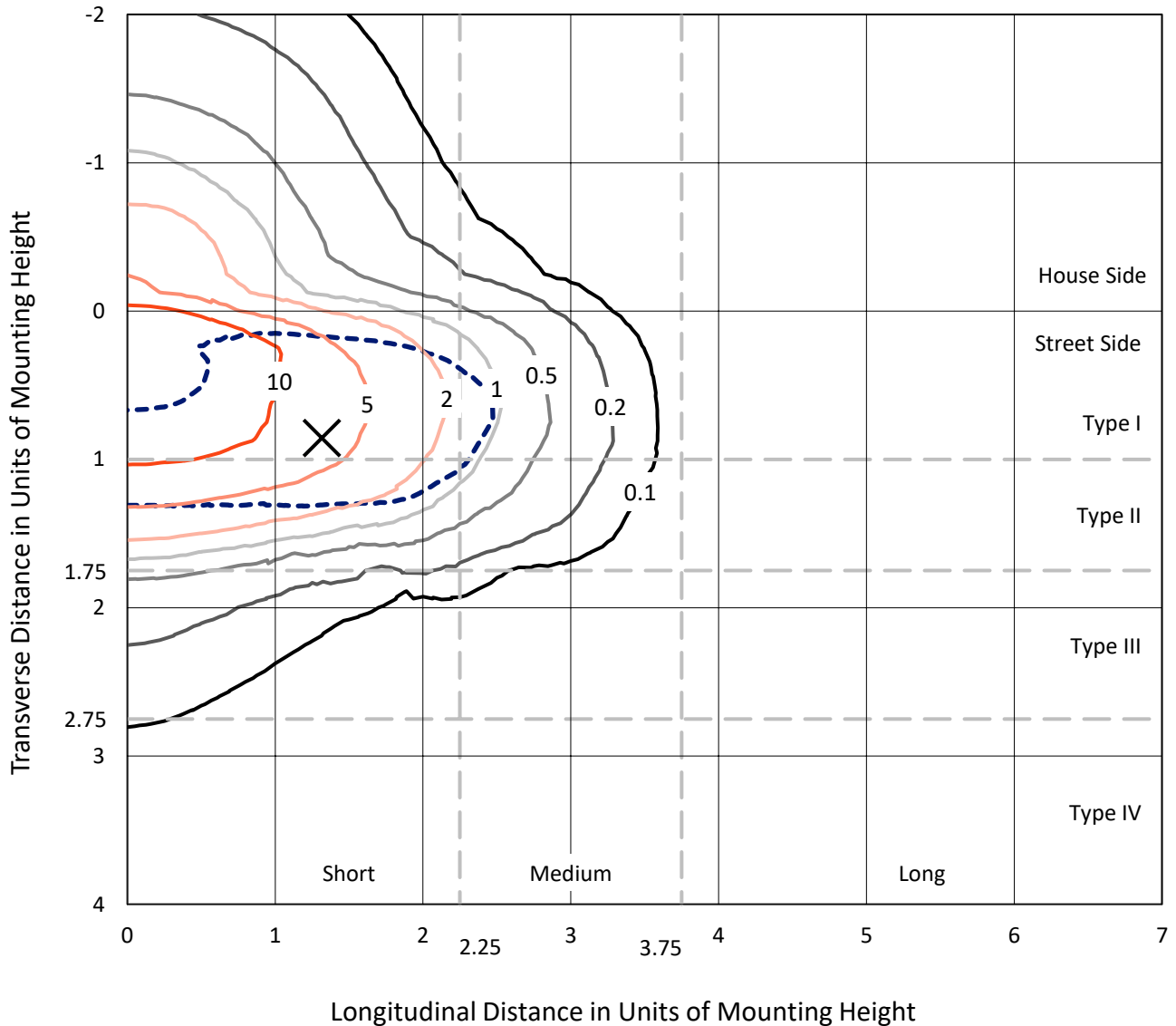
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

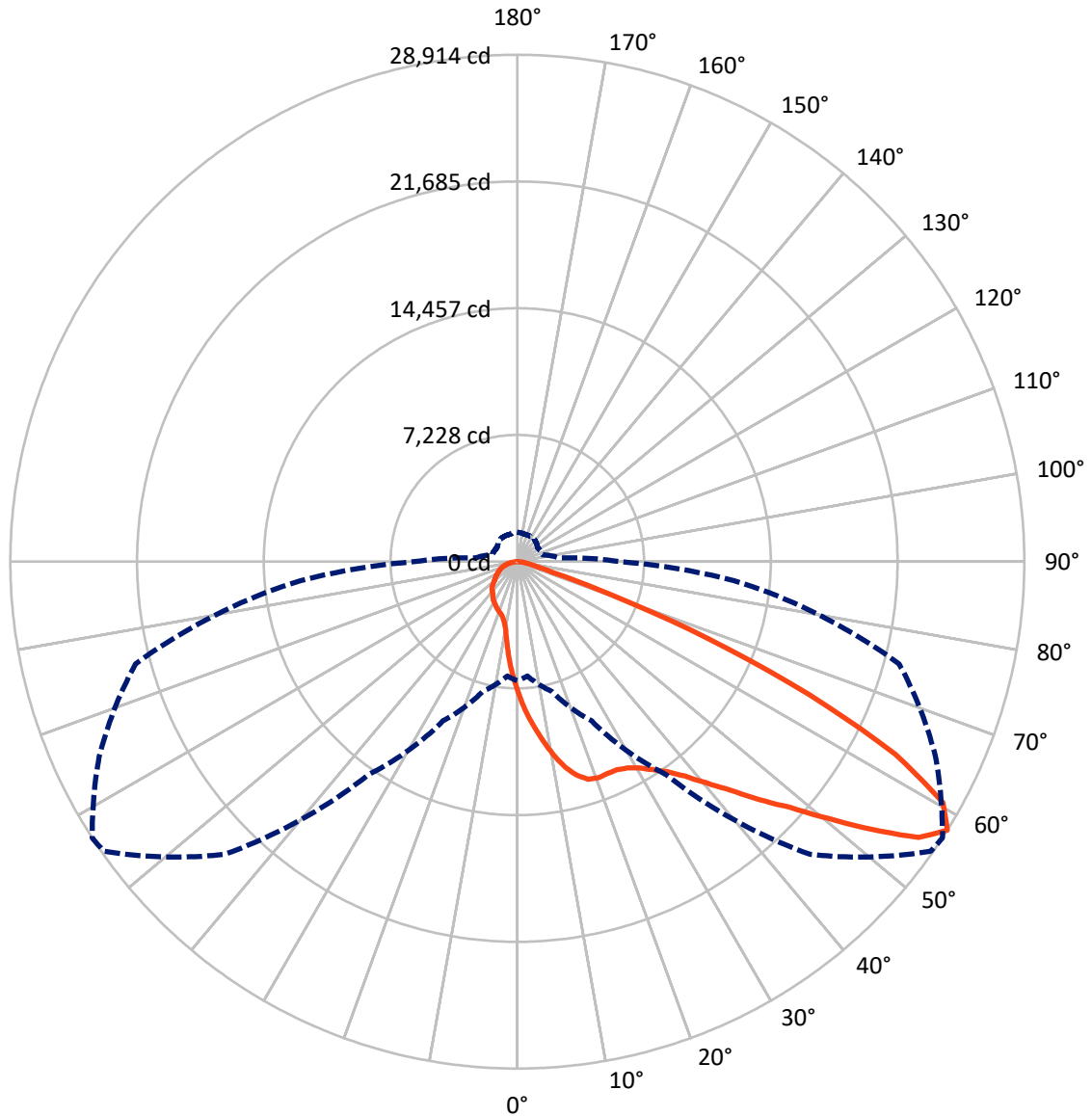
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.2 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	5417.9	0.0	5417.9
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	30209.1	0.0	30209.1
	% Fixture	84.8	0.0	84.8
Total	Lumens	35627.0	0.0	35627.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	719.4	2.0
10°-20°	2120.0	6.0
20°-30°	3520.3	9.9
30°-40°	5302.6	14.9
40°-50°	7961.4	22.3
50°-60°	8923.7	25.0
60°-70°	5222.6	14.7
70°-80°	1544.8	4.3
80°-90°	312.2	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°	35627.0	100.0
0°-180°	35627.0	100.0

Coefficient of Utilization



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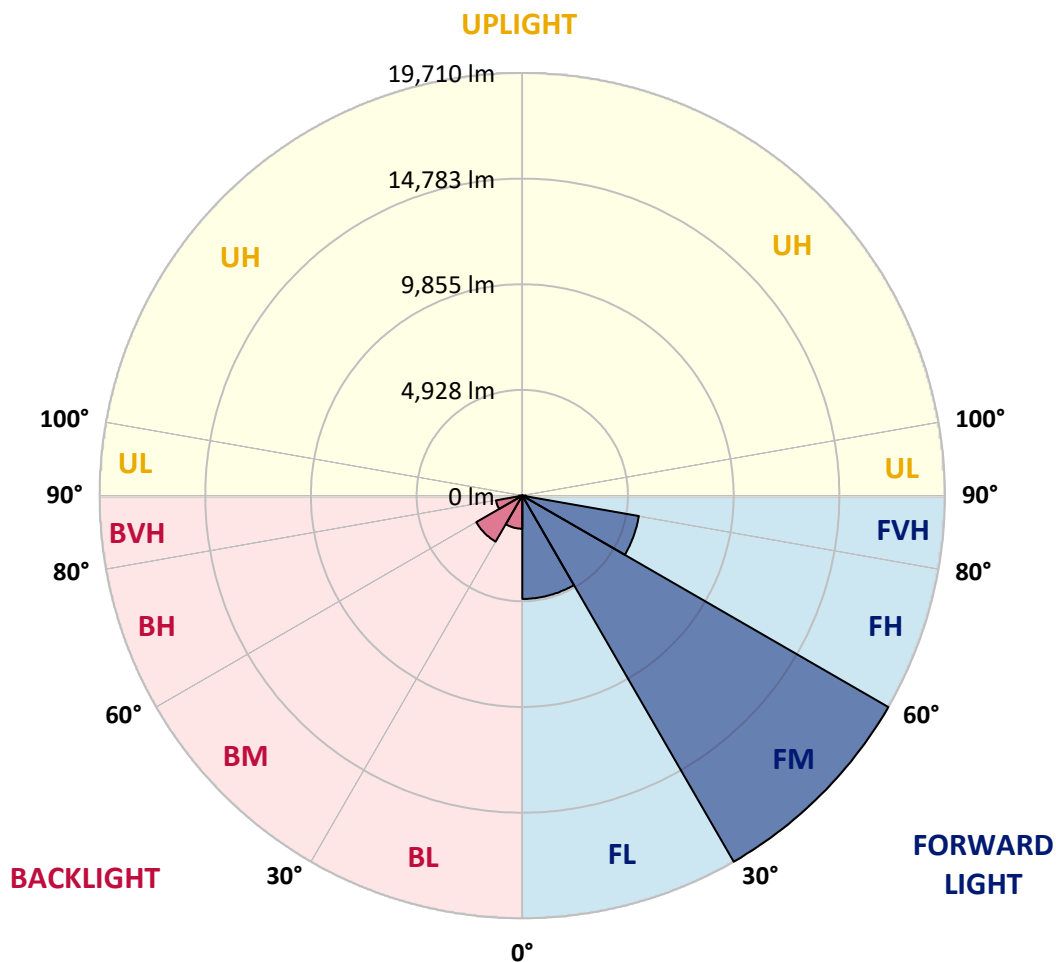
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4815.9	13.5			
FM	(30°-60°)	19710.4	55.3			
FH	(60°-80°)	5520.8	15.5			G3/7500
FVH	(80°-90°)	162.0	0.5			G2/225
BL	(0°-30°)	1543.7	4.3	B3/2500		
BM	(30°-60°)	2477.3	7.0	B2/2500		
BH	(60°-80°)	1246.6	3.5	B3/2500		G3/2500
BVH	(80°-90°)	150.2	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°	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8
2.5°	9300.5	9199.0	9119.1	9048.9	8957.2	8709.5	8461.9	8458.0	8261.0	7956.8	7644.7
5°	10815.7	10679.2	10696.8	10478.4	10259.9	9901.1	9376.5	9349.2	8929.9	8360.5	7781.3
7.5°	11802.5	11804.5	11749.9	11625.1	11389.1	10981.5	10386.7	10252.1	9669.0	8805.1	7937.3
10°	11751.8	11804.5	11896.2	12003.4	12075.6	11874.7	11332.5	11168.7	10410.1	9343.4	8110.8
12.5°	11077.1	11159.0	11289.6	11558.8	11993.7	12325.2	12139.9	12007.3	11268.2	9879.7	8302.0
15°	10655.8	10704.6	10776.7	10958.1	11426.2	12219.9	12699.6	12629.4	12077.5	10486.2	8516.5
17.5°	10527.1	10575.9	10599.3	10710.4	11043.9	11857.1	12920.0	13044.8	12795.2	11043.9	8732.9
20°	10655.8	10679.2	10679.2	10745.5	11006.9	11644.6	12910.3	13161.8	13384.1	11712.8	8935.8
22.5°	10993.2	11003.0	10989.3	11012.7	11207.7	11703.1	12818.6	13130.6	13860.0	12280.3	9093.7
25°	11541.2	11556.8	11467.1	11412.5	11554.9	11960.5	12869.3	13156.0	14232.5	12822.5	9199.0
27.5°	12163.3	12182.8	12073.6	11946.9	12013.2	12278.4	13068.2	13325.6	14511.4	13356.8	9265.3
30°	12925.9	12933.7	12750.3	12598.2	12555.3	12752.3	13407.5	13647.4	14858.5	13986.8	9364.8
32.5°	13705.9	13764.4	13528.5	13313.9	13241.8	13302.2	13908.7	14140.8	15271.9	14663.5	9524.7
35°	14766.8	14776.6	14493.8	14232.5	13994.6	14072.6	14550.4	14718.1	15843.3	15445.5	9750.9
37.5°	16091.0	16180.7	15790.7	15303.1	15010.6	14897.5	15326.5	15509.9	16644.9	16405.0	10092.2
40°	17561.5	17594.6	17261.1	16956.9	16422.5	16094.9	16391.3	16590.3	17633.6	17549.7	10488.1
42.5°	18485.8	18558.0	18583.3	18552.1	18150.4	17600.5	17713.6	17807.2	18803.7	18624.3	10893.8
45°	18797.9	18905.1	19267.9	20036.2	20079.1	19537.0	19273.7	19363.4	20079.1	19708.6	11281.8
47.5°	18281.1	18464.4	19133.3	20709.1	21888.9	21929.9	21136.1	20939.2	21241.5	20607.6	11562.7
50°	16945.2	16984.2	18008.0	20289.8	22737.3	24217.4	23396.4	23029.8	22345.3	21272.7	11755.7
52.5°	14878.0	14922.8	15780.9	18341.5	22214.6	25816.6	26040.9	25385.6	23466.6	21789.5	11882.5
55°	11043.9	11303.3	12247.2	14722.0	19737.9	25666.4	28143.2	27770.7	24822.0	22199.0	12081.4
57.5°	6790.6	6552.6	7672.0	10016.2	14844.8	23603.1	28792.6	28913.5	26313.9	22542.2	12414.9
60°	3124.2	3171.0	3633.2	5166.1	9048.9	18464.4	27119.3	27883.8	27138.8	22530.5	12498.8
62.5°	2153.0	2110.1	1993.1	2268.1	4126.6	11677.7	22906.9	24201.8	25485.1	21830.4	12165.3
65°	1924.8	1881.9	1655.7	1579.7	1895.6	5090.0	16652.7	18286.9	21457.9	20063.5	11334.5
67.5°	1798.1	1739.6	1505.5	1357.3	1353.4	2026.2	9819.2	11786.9	15915.5	16962.7	9821.2
70°	1665.5	1618.7	1386.6	1222.8	1152.6	1273.5	4315.8	5649.7	10334.1	12223.8	7650.6
72.5°	1532.8	1478.2	1269.6	1094.1	1002.4	953.6	1653.8	2151.1	5838.9	7328.8	4690.2
75°	1339.8	1312.5	1135.0	990.7	891.2	770.3	1049.2	1197.4	2792.7	3366.0	2353.9
77.5°	1172.1	1142.8	1008.2	865.9	793.7	626.0	745.0	813.2	1177.9	1365.1	1062.9
80°	858.1	887.3	850.3	764.5	707.9	491.4	501.2	557.8	700.1	774.2	649.4
82.5°	544.1	598.7	655.3	589.0	536.3	388.1	347.1	368.6	477.8	507.0	288.6
85°	228.2	232.1	380.3	358.8	306.2	230.1	208.7	220.4	255.5	267.2	134.6
87.5°	87.8	85.8	134.6	124.8	95.6	66.3	66.3	74.1	101.4	93.6	42.9
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°	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8	7484.8
2.5°	7510.2	7371.7	7096.7	6755.5	6505.8	6225.0	5977.3	5799.9	5733.6	5702.4	5643.8
5°	7504.3	7231.3	6661.8	6065.1	5585.3	5093.9	4678.5	4409.4	4386.0	4206.6	4189.0
7.5°	7506.3	7088.9	6182.1	5304.5	4573.2	4070.0	3726.8	3637.1	3529.8	3502.5	3516.2
10°	7512.1	6907.6	5667.2	4551.7	3843.8	3514.2	3385.5	3350.4	3354.3	3366.0	3368.0
12.5°	7519.9	6732.1	5132.9	3980.3	3434.3	3297.8	3284.1	3315.3	3348.5	3373.8	3379.7
15°	7529.7	6531.2	4612.2	3520.1	3229.5	3217.8	3262.7	3315.3	3362.1	3399.2	3405.0
17.5°	7518.0	6297.2	4175.4	3237.3	3116.4	3173.0	3247.1	3313.4	3356.3	3391.4	3395.3
20°	7490.7	6035.8	3754.1	3038.4	3046.2	3137.9	3217.8	3280.2	3327.0	3344.6	3358.2
22.5°	7385.4	5723.8	3387.5	2884.3	2962.3	3089.1	3184.7	3221.7	3169.1	3132.0	3141.8
25°	7205.9	5318.2	3046.2	2759.5	2886.3	3020.8	3118.4	3028.6	2985.7	2970.1	2977.9
27.5°	6981.7	4873.5	2788.8	2628.9	2788.8	2944.8	2917.5	2901.9	2882.4	2857.0	2862.9
30°	6739.9	4438.6	2570.3	2527.4	2683.5	2773.2	2784.9	2810.2	2788.8	2749.8	2765.4
32.5°	6515.6	4029.1	2404.6	2441.6	2609.4	2595.7	2683.5	2712.7	2613.3	2482.6	2488.4
35°	6324.5	3648.8	2279.8	2357.8	2482.6	2488.4	2576.2	2474.8	2367.5	2305.1	2309.0
37.5°	6180.1	3352.4	2197.9	2285.6	2320.7	2394.8	2348.0	2295.4	2281.7	2238.8	2240.8
40°	6094.3	3093.0	2145.2	2229.1	2223.2	2273.9	2123.8	2176.4	2195.9	2182.3	2184.2
42.5°	6008.5	2909.7	2090.6	2151.1	2149.1	2049.6	2016.5	2061.3	2112.1	2117.9	2114.0
45°	5940.3	2767.3	2034.0	2032.1	2071.1	1915.1	1905.3	1932.6	2004.8	2039.9	2037.9
47.5°	5864.2	2648.4	1948.2	1893.6	1905.3	1831.2	1815.6	1827.3	1915.1	1971.6	1987.2
50°	5768.7	2529.4	1841.0	1766.9	1718.1	1753.2	1757.1	1759.1	1846.8	1911.2	1924.8
52.5°	5692.6	2439.7	1718.1	1663.5	1605.0	1683.0	1712.3	1716.2	1768.8	1821.5	1831.2
55°	5737.5	2389.0	1597.2	1558.2	1505.5	1610.9	1667.4	1675.2	1686.9	1725.9	1731.8
57.5°	5872.0	2400.7	1499.7	1449.0	1410.0	1525.0	1620.6	1626.5	1618.7	1665.5	1673.3
60°	5913.0	2394.8	1427.5	1328.1	1304.7	1433.4	1552.4	1564.1	1562.1	1630.4	1644.0
62.5°	5741.4	2320.7	1355.4	1226.7	1211.1	1339.8	1456.8	1503.6	1513.3	1610.9	1628.4
65°	5337.7	2168.6	1259.8	1119.4	1119.4	1240.3	1365.1	1429.5	1456.8	1587.5	1607.0
67.5°	4805.3	1989.2	1162.3	1027.7	1023.8	1144.8	1267.6	1333.9	1376.8	1554.3	1566.0
70°	3988.1	1747.4	1041.4	928.3	928.3	1037.5	1148.7	1228.6	1291.0	1491.9	1491.9
72.5°	2732.2	1452.9	895.1	815.2	817.1	918.5	1031.6	1121.4	1195.5	1367.1	1371.0
75°	1727.9	1135.0	735.2	694.3	702.1	797.6	914.6	1008.2	1156.5	1351.5	1357.3
77.5°	918.5	797.6	585.1	575.3	585.1	672.8	803.5	932.2	1160.4	1172.1	1152.6
80°	594.8	565.6	462.2	442.7	446.6	542.2	715.7	885.4	932.2	943.9	901.0
82.5°	323.7	358.8	327.6	308.1	308.1	423.2	610.4	704.0	668.9	555.8	530.5
85°	138.5	167.7	169.7	148.2	142.4	261.3	409.5	384.2	356.9	341.3	337.4
87.5°	39.0	54.6	54.6	41.0	31.2	72.2	81.9	23.4	0.0	2.0	3.9
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)