

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: P454457

Luminaire Tested: **GALN-SA5C-750-U-AFL**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454457
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-750-U-AFL
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35552 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

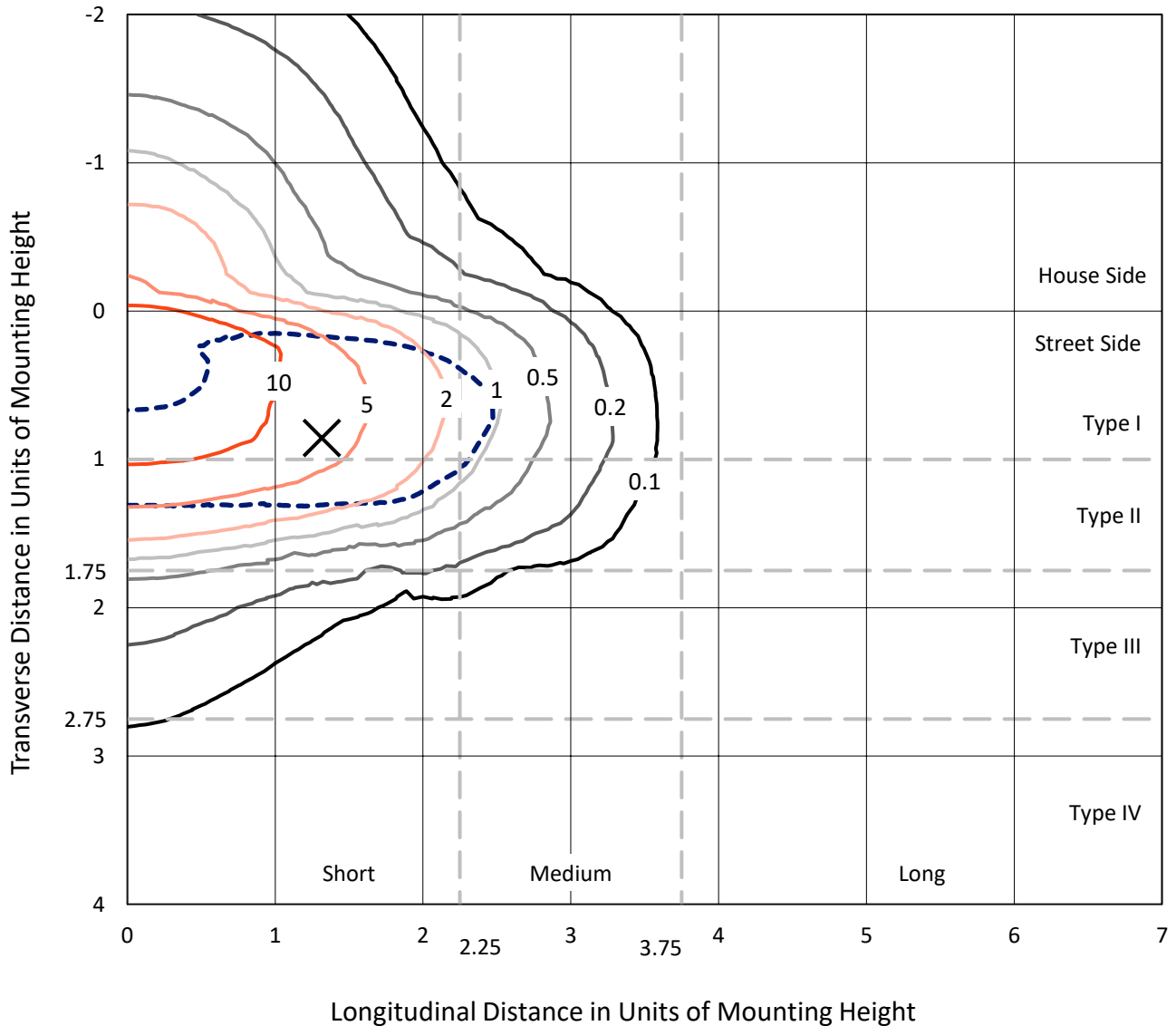
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

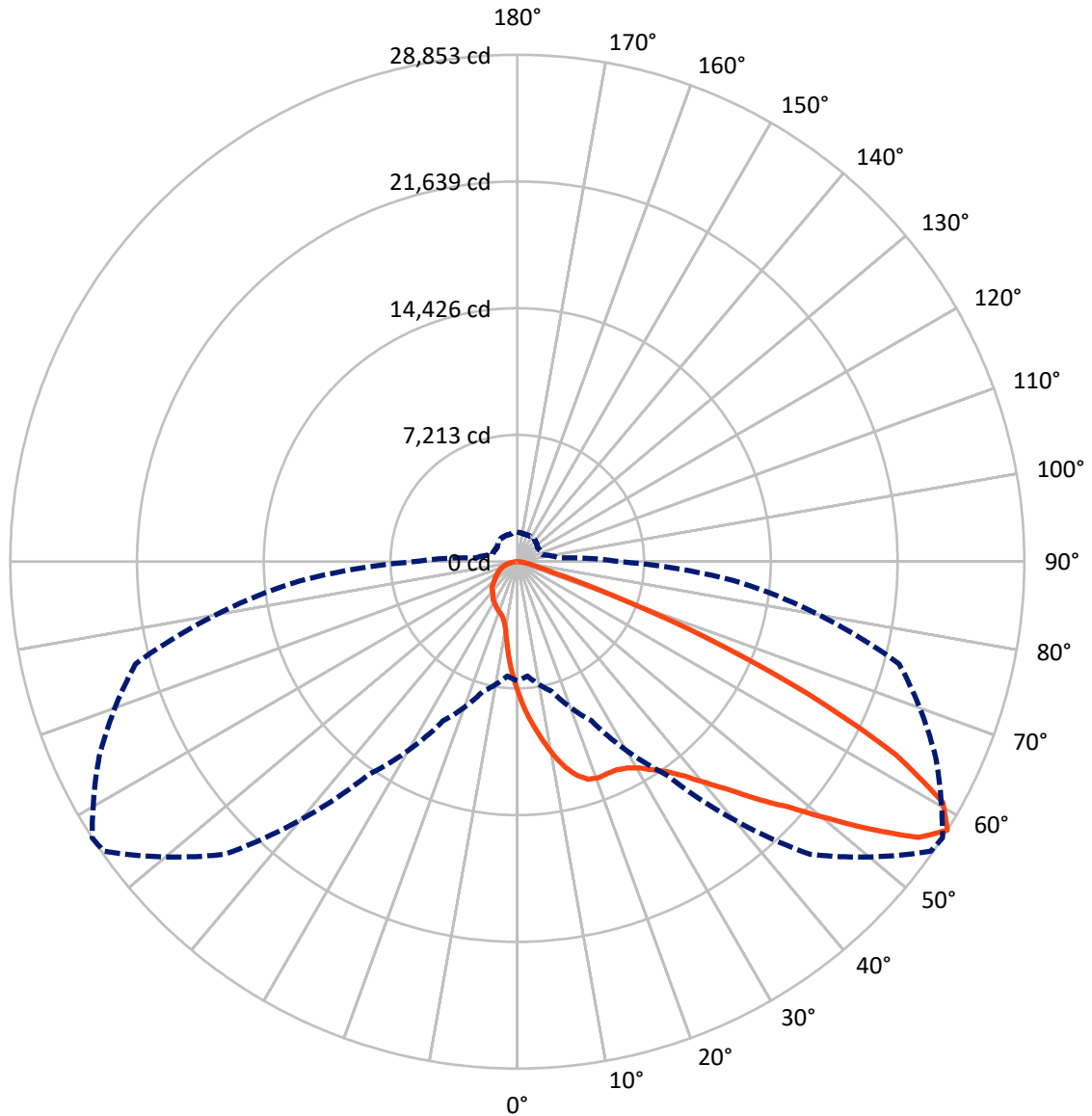
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	5406.5	0.0	5406.5
	% Fixture	15.2	0.0	15.2
Street Side	Lumens	30145.5	0.0	30145.5
	% Fixture	84.8	0.0	84.8
Total	Lumens	35552.0	0.0	35552.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	717.8	2.0
10°-20°	2115.5	6.0
20°-30°	3512.9	9.9
30°-40°	5291.4	14.9
40°-50°	7944.6	22.3
50°-60°	8904.9	25.0
60°-70°	5211.6	14.7
70°-80°	1541.5	4.3
80°-90°	311.6	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°	35552.0	100.0
0°-180°	35552.0	100.0

Coefficient of Utilization



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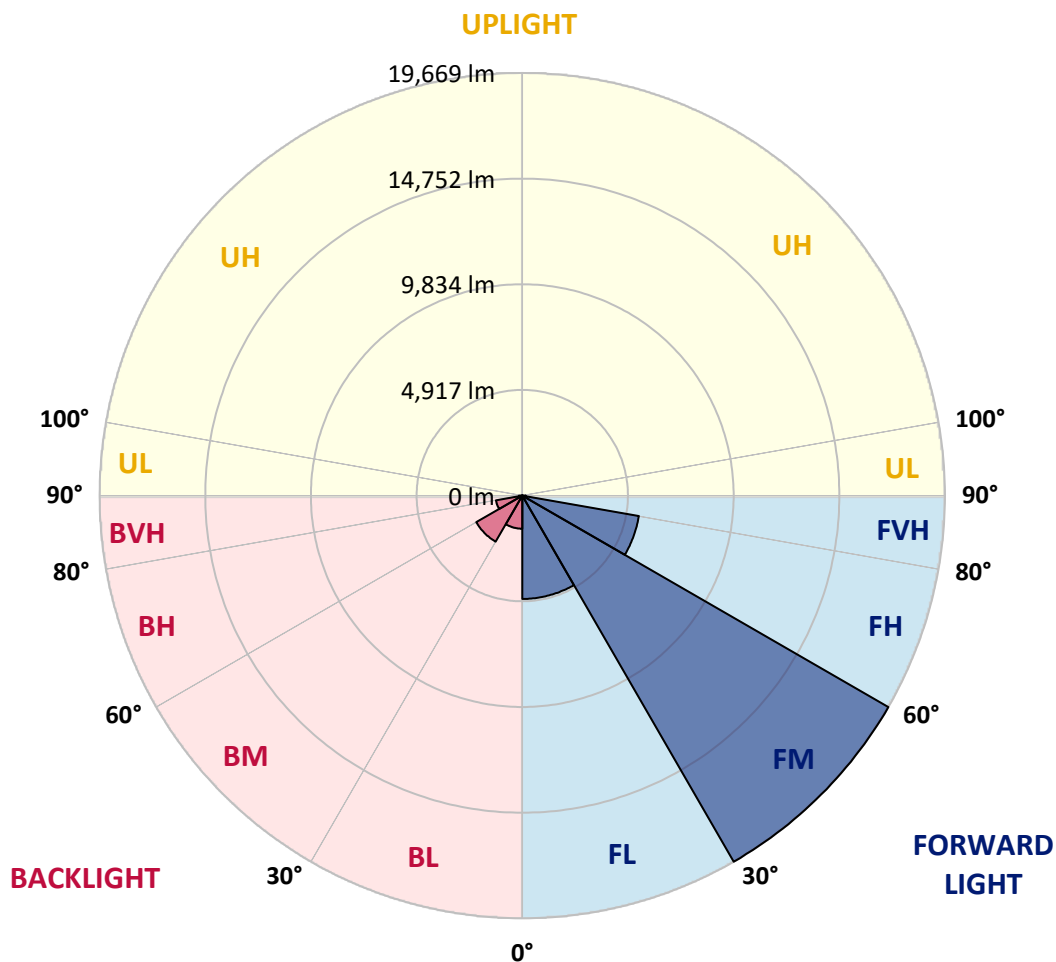
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4805.8	13.5			
FM	(30°-60°)	19668.9	55.3			
FH	(60°-80°)	5509.1	15.5			G3/7500
FVH	(80°-90°)	161.7	0.5			G2/225
BL	(0°-30°)	1540.5	4.3	B3/2500		
BM	(30°-60°)	2472.0	7.0	B2/2500		
BH	(60°-80°)	1244.0	3.5	B3/2500		G3/2500
BVH	(80°-90°)	149.9	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°	7469.1	7469.1	7469.1	7469.1	7469.1	7469.1	7469.1	7469.1	7469.1	7469.1	7469.1
2.5°	9280.9	9179.7	9099.9	9029.8	8938.4	8691.2	8444.1	8440.2	8243.6	7940.0	7628.6
5°	10793.0	10656.8	10674.3	10456.3	10238.3	9880.3	9356.8	9329.5	8911.1	8342.9	7764.9
7.5°	11777.7	11779.6	11725.2	11600.6	11365.1	10958.4	10364.8	10230.6	9648.7	8786.6	7920.6
10°	11727.1	11779.6	11871.1	11978.1	12050.1	11849.7	11308.7	11145.2	10388.2	9323.7	8093.8
12.5°	11053.8	11135.5	11265.9	11534.4	11968.4	12299.2	12114.4	11982.0	11244.5	9858.9	8284.5
15°	10633.4	10682.1	10754.1	10935.0	11402.1	12194.2	12672.9	12602.8	12052.1	10464.1	8498.5
17.5°	10505.0	10553.6	10577.0	10687.9	11020.7	11832.2	12892.8	13017.4	12768.3	11020.7	8714.6
20°	10633.4	10656.8	10656.8	10722.9	10983.7	11620.1	12883.1	13134.1	13356.0	11688.2	8917.0
22.5°	10970.1	10979.8	10966.2	10989.5	11184.1	11678.4	12791.6	13103.0	13830.8	12254.5	9074.6
25°	11516.9	11532.5	11443.0	11388.5	11530.5	11935.3	12842.2	13128.3	14202.5	12795.5	9179.7
27.5°	12137.7	12157.2	12048.2	11921.7	11987.9	12252.5	13040.7	13297.6	14480.8	13328.7	9245.8
30°	12898.6	12906.4	12723.5	12571.7	12528.9	12725.4	13379.3	13618.7	14827.2	13957.3	9345.1
32.5°	13677.1	13735.5	13500.0	13285.9	13213.9	13274.2	13879.5	14111.1	15239.8	14632.6	9504.7
35°	14735.7	14745.5	14463.3	14202.5	13965.1	14042.9	14519.7	14687.1	15810.0	15413.0	9730.4
37.5°	16057.1	16146.7	15757.4	15270.9	14979.0	14866.1	15294.3	15477.2	16609.8	16370.5	10071.0
40°	17524.5	17557.6	17224.8	16921.2	16388.0	16061.0	16356.8	16555.3	17596.5	17512.8	10466.0
42.5°	18446.9	18518.9	18544.2	18513.1	18112.2	17563.4	17676.3	17769.7	18764.1	18585.1	10870.8
45°	18758.3	18865.3	19227.3	19994.1	20036.9	19495.9	19233.1	19322.7	20036.9	19667.1	11258.1
47.5°	18242.6	18425.5	19093.0	20665.5	21842.8	21883.7	21091.7	20895.1	21196.7	20564.3	11538.3
50°	16909.5	16948.4	17970.1	20247.1	22689.4	24166.5	23347.2	22981.3	22298.2	21227.9	11731.0
52.5°	14846.7	14891.4	15747.7	18302.9	22167.8	25762.3	25986.1	25332.2	23417.2	21743.6	11857.5
55°	11020.7	11279.5	12221.4	14691.0	19696.3	25612.4	28083.9	27712.2	24769.8	22152.3	12056.0
57.5°	6776.3	6538.8	7655.9	9995.1	14813.6	23553.4	28732.0	28852.6	26258.5	22494.8	12388.8
60°	3117.6	3164.3	3625.6	5155.2	9029.8	18425.5	27062.2	27825.1	27081.7	22483.1	12472.4
62.5°	2148.5	2105.7	1988.9	2263.3	4117.9	11653.1	22858.7	24150.9	25431.4	21784.5	12139.7
65°	1920.8	1878.0	1652.2	1576.3	1891.6	5079.3	16617.6	18248.4	21412.8	20021.3	11310.6
67.5°	1794.3	1735.9	1502.4	1354.5	1350.6	2022.0	9798.5	11762.1	15882.0	16927.0	9800.5
70°	1662.0	1615.2	1383.7	1220.2	1150.1	1270.8	4306.7	5637.8	10312.3	12198.1	7634.5
72.5°	1529.6	1475.1	1266.9	1091.8	1000.3	951.6	1650.3	2146.5	5826.6	7313.4	4680.3
75°	1337.0	1309.7	1132.6	988.6	889.4	768.7	1047.0	1194.9	2786.8	3358.9	2348.9
77.5°	1169.6	1140.4	1006.1	864.1	792.1	624.7	743.4	811.5	1175.4	1362.3	1060.6
80°	856.3	885.5	848.5	762.9	706.4	490.4	500.1	556.6	698.6	772.6	648.0
82.5°	543.0	597.4	653.9	587.7	535.2	387.3	346.4	367.8	476.8	506.0	288.0
85°	227.7	231.6	379.5	358.1	305.5	229.6	208.2	219.9	254.9	266.6	134.3
87.5°	87.6	85.6	134.3	124.5	95.4	66.2	66.2	74.0	101.2	93.4	42.8
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°	7469.1	7469.1	7469.1	7469.1	7469.1	7469.1	7469.1	7469.1	7469.1	7469.1	7469.1
2.5°	7494.4	7356.2	7081.8	6741.2	6492.1	6211.9	5964.7	5787.7	5721.5	5690.3	5632.0
5°	7488.5	7216.1	6647.8	6052.3	5573.6	5083.2	4668.7	4400.1	4376.7	4197.7	4180.2
7.5°	7490.5	7074.0	6169.1	5293.3	4563.6	4061.5	3719.0	3629.4	3522.4	3495.2	3508.8
10°	7496.3	6893.0	5655.3	4542.2	3835.7	3506.8	3378.4	3343.4	3347.3	3358.9	3360.9
12.5°	7504.1	6717.9	5122.1	3972.0	3427.1	3290.8	3277.2	3308.3	3341.4	3366.7	3372.6
15°	7513.8	6517.4	4602.5	3512.7	3222.7	3211.0	3255.8	3308.3	3355.0	3392.0	3397.9
17.5°	7502.2	6283.9	4166.6	3230.5	3109.8	3166.3	3240.2	3306.4	3349.2	3384.2	3388.1
20°	7474.9	6023.1	3746.2	3032.0	3039.8	3131.2	3211.0	3273.3	3320.0	3337.5	3351.2
22.5°	7369.8	5711.8	3380.3	2878.3	2956.1	3082.6	3178.0	3214.9	3162.4	3125.4	3135.1
25°	7190.8	5307.0	3039.8	2753.7	2880.2	3014.5	3111.8	3022.3	2979.5	2963.9	2971.7
27.5°	6967.0	4863.3	2782.9	2623.3	2782.9	2938.6	2911.3	2895.8	2876.3	2851.0	2856.9
30°	6725.7	4429.3	2564.9	2522.1	2677.8	2767.3	2779.0	2804.3	2782.9	2744.0	2759.5
32.5°	6501.9	4020.6	2399.5	2436.5	2603.9	2590.2	2677.8	2707.0	2607.8	2477.4	2483.2
35°	6311.1	3641.1	2275.0	2352.8	2477.4	2483.2	2570.8	2469.6	2362.5	2300.3	2304.2
37.5°	6167.1	3345.3	2193.2	2280.8	2315.8	2389.8	2343.1	2290.5	2276.9	2234.1	2236.0
40°	6081.5	3086.5	2140.7	2224.4	2218.5	2269.1	2119.3	2171.8	2191.3	2177.7	2179.6
42.5°	5995.9	2903.6	2086.2	2146.5	2144.6	2045.3	2012.3	2057.0	2107.6	2113.4	2109.6
45°	5927.8	2761.5	2029.8	2027.8	2066.7	1911.1	1901.3	1928.6	2000.6	2035.6	2033.7
47.5°	5851.9	2642.8	1944.1	1889.6	1901.3	1827.4	1811.8	1823.5	1911.1	1967.5	1983.1
50°	5756.5	2524.1	1837.1	1763.2	1714.5	1749.5	1753.4	1755.4	1842.9	1907.2	1920.8
52.5°	5680.6	2434.6	1714.5	1660.0	1601.6	1679.5	1708.7	1712.6	1765.1	1817.6	1827.4
55°	5725.4	2384.0	1593.8	1554.9	1502.4	1607.5	1663.9	1671.7	1683.4	1722.3	1728.1
57.5°	5859.7	2395.6	1496.5	1445.9	1407.0	1521.8	1617.2	1623.0	1615.2	1662.0	1669.7
60°	5900.5	2389.8	1424.5	1325.3	1301.9	1430.4	1549.1	1560.8	1558.8	1626.9	1640.5
62.5°	5729.3	2315.8	1352.5	1224.1	1208.5	1337.0	1453.7	1500.4	1510.2	1607.5	1625.0
65°	5326.4	2164.0	1257.2	1117.1	1117.1	1237.7	1362.3	1426.5	1453.7	1584.1	1603.6
67.5°	4795.1	1985.0	1159.9	1025.6	1021.7	1142.4	1265.0	1331.1	1373.9	1551.0	1562.7
70°	3979.7	1743.7	1039.2	926.3	926.3	1035.3	1146.2	1226.0	1288.3	1488.8	1488.8
72.5°	2726.5	1449.8	893.3	813.5	815.4	916.6	1029.5	1119.0	1192.9	1364.2	1368.1
75°	1724.2	1132.6	733.7	692.8	700.6	795.9	912.7	1006.1	1154.0	1348.6	1354.5
77.5°	916.6	795.9	583.8	574.1	583.8	671.4	801.8	930.2	1157.9	1169.6	1150.1
80°	593.6	564.4	461.2	441.8	445.7	541.0	714.2	883.5	930.2	941.9	899.1
82.5°	323.0	358.1	326.9	307.5	307.5	422.3	609.1	702.5	667.5	554.6	529.3
85°	138.2	167.4	169.3	147.9	142.1	260.8	408.7	383.4	356.1	340.6	336.7
87.5°	38.9	54.5	54.5	40.9	31.1	72.0	81.7	23.4	0.0	1.9	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)