

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: P454183

Luminaire Tested: **GALN-SA5B-730-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454183
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5B-730-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26448 lumens
Efficiency: N/A
Efficacy: 129.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

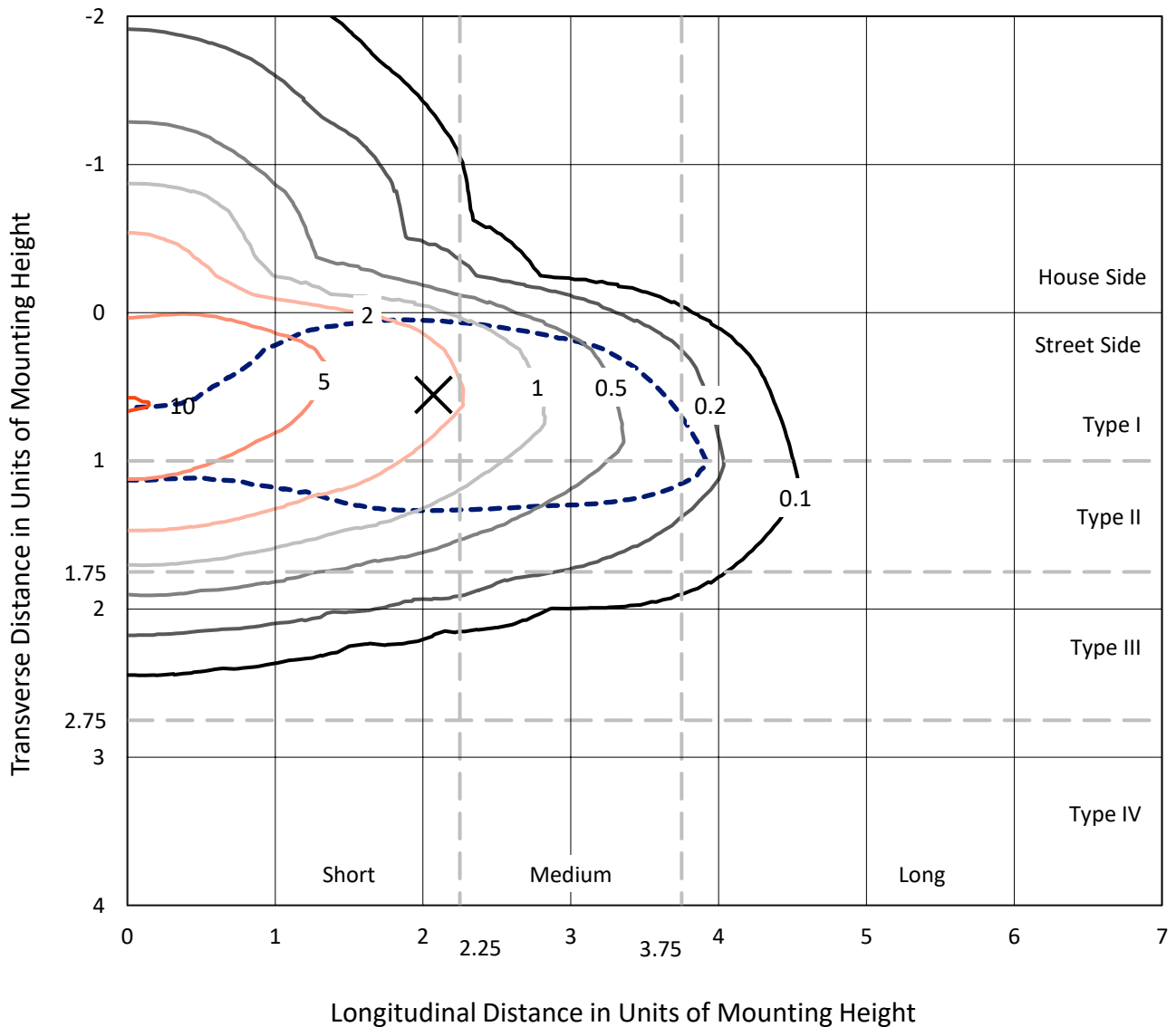
Input Watts (W): 204
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

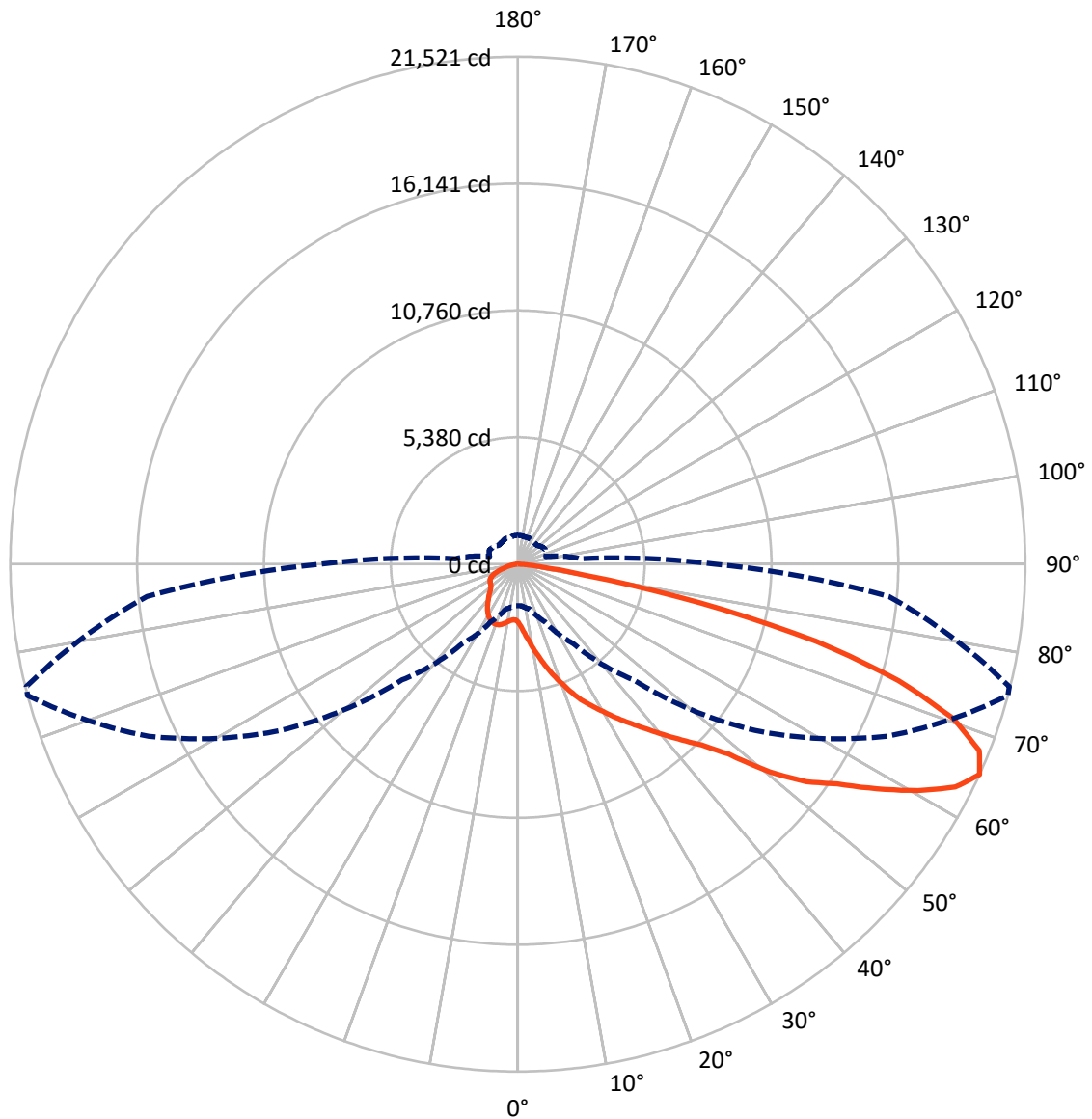
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4446.3	0.0	4446.3
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	22001.8	0.0	22001.8
	% Fixture	83.2	0.0	83.2
Total	Lumens	26448.0	0.0	26448.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	298.6	1.1
10°-20°	1169.4	4.4
20°-30°	2258.9	8.5
30°-40°	3669.2	13.9
40°-50°	5047.3	19.1
50°-60°	5959.1	22.5
60°-70°	5221.2	19.7
70°-80°	2492.6	9.4
80°-90°	331.7	1.3
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°	26448.0	100.0
0°-180°	26448.0	100.0

Coefficient of Utilization



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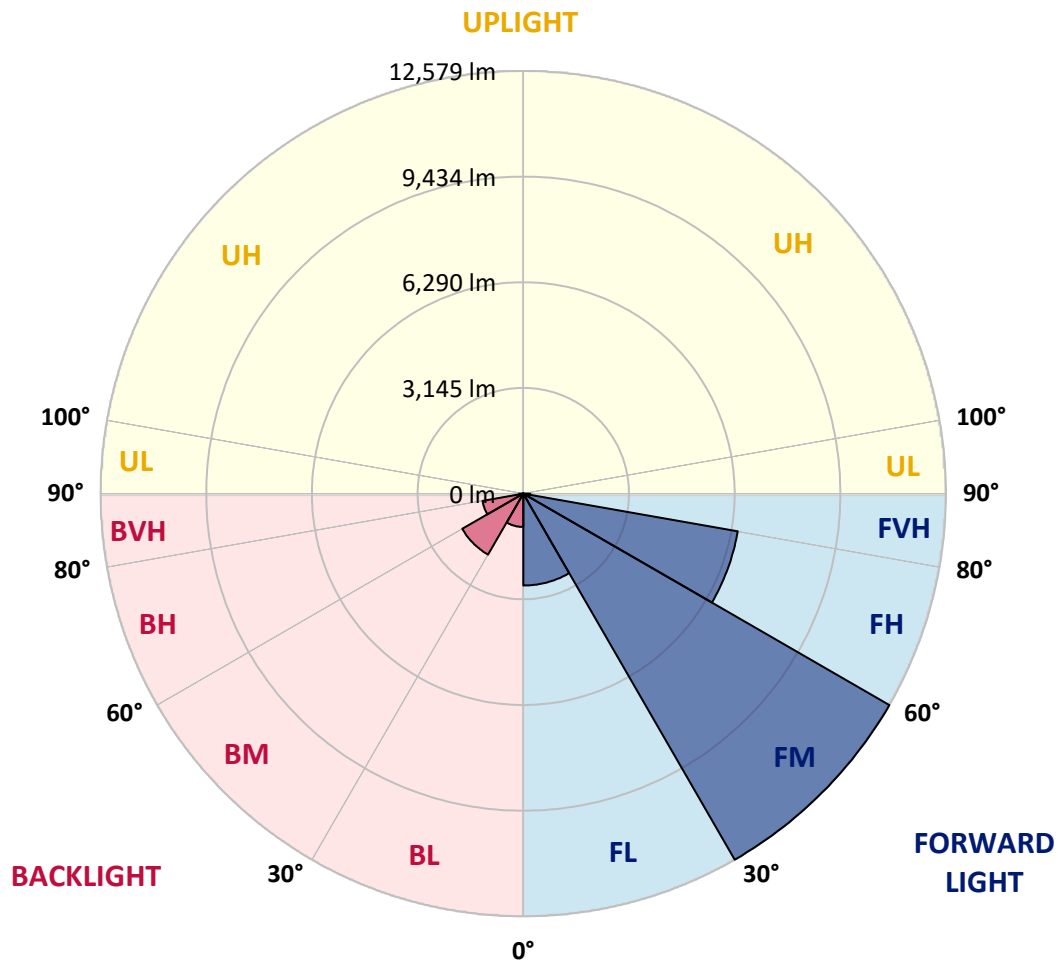
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2734.3	10.3			
FM	(30°-60°)	12579.2	47.6			
FH	(60°-80°)	6480.9	24.5			G3/7500
FVH	(80°-90°)	207.3	0.8			G2/225
BL	(0°-30°)	992.6	3.8	B2/1000		
BM	(30°-60°)	2096.4	7.9	B2/2500		
BH	(60°-80°)	1232.9	4.7	B3/2500		G3/2500
BVH	(80°-90°)	124.4	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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2457.4	2457.4	2457.4	2457.4	2457.4	2457.4	2457.4	2457.4	2457.4	2457.4	2457.4
2.5°	3265.0	3243.5	3220.5	3157.4	3090.0	3014.0	2904.9	2800.2	2661.1	2656.8	2553.5
5°	4170.2	4155.8	4054.0	3995.2	3838.8	3630.8	3454.4	3180.4	2926.4	2896.3	2695.5
7.5°	5002.2	4946.3	4907.5	4801.4	4646.4	4379.6	4038.2	3668.1	3243.5	3203.3	2870.5
10°	5629.1	5623.4	5603.3	5511.5	5395.3	5129.9	4751.2	4220.4	3645.1	3566.2	3082.8
12.5°	6098.2	6102.5	6099.6	6098.2	6015.0	5789.8	5379.5	4820.0	4051.1	3995.2	3328.1
15°	6406.6	6449.7	6466.9	6538.6	6545.8	6395.1	6042.2	5399.6	4508.7	4425.5	3592.1
17.5°	6610.3	6631.8	6712.2	6834.1	6933.1	6905.8	6591.7	5936.1	4976.4	4837.2	3866.1
20°	6805.4	6842.7	6904.4	7070.8	7245.8	7326.2	7105.2	6485.5	5439.7	5350.8	4168.7
22.5°	7211.4	7264.5	7286.0	7370.6	7519.8	7661.8	7561.4	7012.0	5947.6	5827.1	4490.1
25°	7898.5	7954.5	7894.2	7874.1	7922.9	7993.2	7971.7	7508.3	6426.7	6254.6	4794.2
27.5°	8793.7	8800.9	8683.2	8571.3	8450.8	8415.0	8349.0	7948.7	6842.7	6699.3	5099.8
30°	9754.8	9720.4	9525.3	9323.0	9119.3	8918.5	8729.1	8373.4	7306.1	7141.1	5399.6
32.5°	10647.1	10628.4	10411.8	10097.7	9753.4	9564.0	9181.0	8802.3	7802.4	7643.2	5708.0
35°	11315.6	11342.8	11104.7	10761.9	10386.0	10218.2	9734.7	9252.7	8316.0	8142.4	6043.7
37.5°	11790.4	11776.1	11565.2	11268.2	10938.3	10792.0	10381.7	9744.8	8868.3	8701.9	6410.9
40°	11959.7	11951.1	11794.7	11578.1	11368.7	11317.0	11058.8	10275.6	9500.9	9305.8	6852.8
42.5°	11852.1	11870.8	11767.5	11708.6	11669.9	11707.2	11731.6	10971.3	10190.9	10011.6	7331.9
45°	11522.2	11512.1	11497.8	11593.9	11811.9	12057.2	12397.2	11628.3	10941.2	10797.7	7974.6
47.5°	10932.6	11004.3	11040.2	11305.5	11781.8	12362.8	13163.3	12509.1	12030.0	11905.2	8954.3
50°	10107.7	10165.1	10377.4	10849.4	11559.5	12477.6	13912.1	13949.4	13846.1	13612.3	10018.8
52.5°	8819.5	8908.4	9346.0	10211.0	11103.3	12430.2	14365.4	15184.5	15320.8	15145.8	11067.4
55°	7377.8	7502.6	7964.5	9099.2	10475.0	12172.0	14678.1	15900.4	16444.0	16281.9	12077.3
57.5°	5966.2	6098.2	6573.0	7671.9	9379.0	11601.1	14883.3	16698.0	17973.3	17762.4	13334.0
60°	4471.4	4609.2	5016.6	6148.4	7818.2	10485.0	14744.1	17389.4	19501.0	19410.7	14592.1
62.5°	2884.8	3036.9	3391.2	4328.0	6009.3	8960.1	13999.6	17771.0	20823.7	20714.6	15510.2
65°	1757.3	1774.5	1969.6	2686.9	4112.8	6937.4	12296.8	17264.6	21520.8	21487.9	15789.9
67.5°	1136.1	1163.4	1252.3	1609.5	2466.0	4818.6	9832.3	15593.4	21113.4	21102.0	15211.8
70°	959.7	968.3	1008.5	1085.9	1433.1	2922.1	6904.4	12929.4	19565.6	19565.6	13821.7
72.5°	857.9	869.3	883.7	908.1	1022.8	1655.4	4120.0	10064.7	16893.0	17004.9	11764.6
75°	779.0	776.1	784.7	789.0	872.2	1081.6	2130.3	7443.8	13068.6	12844.8	8519.7
77.5°	667.1	671.4	667.1	685.7	770.3	823.4	1081.6	4995.0	7920.1	7630.3	4276.3
80°	548.0	555.2	562.3	573.8	658.5	625.5	649.8	2276.6	2929.3	2867.6	1321.2
82.5°	411.7	421.8	433.2	460.5	517.9	413.1	410.3	972.6	1057.3	968.3	486.3
85°	166.4	196.5	296.9	324.2	325.6	226.7	252.5	406.0	431.8	421.8	190.8
87.5°	38.7	45.9	96.1	144.9	133.4	84.6	93.2	132.0	150.6	139.1	64.6
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°	2457.4	2457.4	2457.4	2457.4	2457.4	2457.4	2457.4	2457.4	2457.4	2457.4	2457.4
2.5°	2506.1	2455.9	2369.8	2303.9	2256.5	2214.9	2189.1	2173.3	2167.6	2166.1	2167.6
5°	2590.8	2501.8	2365.5	2279.5	2232.1	2204.9	2189.1	2187.7	2189.1	2190.5	2186.2
7.5°	2707.0	2579.3	2401.4	2321.1	2285.2	2265.1	2258.0	2255.1	2256.5	2255.1	2255.1
10°	2861.9	2686.9	2471.7	2388.5	2358.4	2335.4	2323.9	2316.8	2311.0	2305.3	2302.4
12.5°	3032.6	2805.9	2547.7	2467.4	2424.4	2388.5	2362.7	2344.0	2331.1	2318.2	2315.3
15°	3223.4	2932.2	2632.4	2520.5	2458.8	2405.7	2361.2	2331.1	2308.2	2289.5	2288.1
17.5°	3405.6	3051.2	2689.7	2544.9	2454.5	2379.9	2321.1	2279.5	2250.8	2226.4	2223.5
20°	3600.7	3164.6	2715.6	2529.1	2411.4	2321.1	2243.6	2193.4	2160.4	2133.1	2128.8
22.5°	3797.2	3260.7	2712.7	2478.9	2336.9	2230.7	2148.9	2095.9	2057.1	2029.9	2019.8
25°	3985.1	3338.2	2676.8	2398.5	2233.6	2123.1	2039.9	1991.1	1956.7	1923.7	1923.7
27.5°	4154.4	3384.1	2609.4	2301.0	2127.4	2011.2	1945.2	1900.8	1869.2	1847.7	1834.8
30°	4320.8	3405.6	2517.6	2177.6	2015.5	1916.5	1863.5	1837.6	1808.9	1784.6	1781.7
32.5°	4470.0	3401.3	2402.8	2057.1	1909.4	1839.1	1817.6	1797.5	1767.3	1732.9	1724.3
35°	4614.9	3372.6	2266.6	1925.1	1820.4	1793.2	1798.9	1770.2	1715.7	1672.7	1665.5
37.5°	4772.7	3320.9	2117.4	1817.6	1745.8	1771.6	1786.0	1722.9	1633.9	1566.5	1550.7
40°	4954.9	3262.1	1962.4	1710.0	1687.0	1751.6	1751.6	1635.4	1513.4	1471.8	1460.4
42.5°	5168.6	3213.4	1833.3	1619.6	1638.2	1702.8	1695.6	1519.2	1469.0	1447.4	1441.7
45°	5507.2	3196.1	1699.9	1540.7	1598.1	1645.4	1586.6	1479.0	1450.3	1433.1	1427.4
47.5°	6042.2	3216.2	1582.3	1481.9	1552.2	1588.0	1464.7	1451.7	1431.7	1407.3	1404.4
50°	6538.6	3197.6	1499.1	1448.9	1512.0	1519.2	1414.4	1418.8	1407.3	1380.0	1374.3
52.5°	6944.6	3138.8	1446.0	1431.7	1477.6	1398.7	1367.1	1382.9	1378.6	1344.2	1338.4
55°	7390.7	3102.9	1420.2	1431.7	1454.6	1293.9	1322.6	1345.6	1339.9	1315.5	1314.0
57.5°	7931.5	3110.1	1401.5	1436.0	1431.7	1240.9	1278.2	1305.4	1304.0	1296.8	1296.8
60°	8485.3	3112.9	1372.8	1434.5	1404.4	1199.3	1232.3	1271.0	1273.9	1278.2	1278.2
62.5°	8668.9	2988.1	1316.9	1408.7	1344.2	1159.1	1189.2	1242.3	1239.4	1250.9	1252.3
65°	8326.0	2642.4	1233.7	1349.9	1266.7	1130.4	1156.2	1205.0	1189.2	1219.4	1225.1
67.5°	7578.6	2186.2	1104.6	1243.7	1180.6	1100.3	1134.7	1153.4	1124.7	1183.5	1184.9
70°	6550.1	1707.1	941.1	1093.1	1083.1	1068.7	1117.5	1088.8	1048.6	1120.4	1106.0
72.5°	5477.0	1304.0	751.7	893.7	952.5	1021.4	1087.4	1005.6	949.7	971.2	945.4
75°	4114.2	964.0	603.9	700.1	793.3	954.0	1060.1	905.2	819.1	799.0	793.3
77.5°	2097.3	629.8	451.9	523.6	595.3	862.2	1022.8	787.6	678.5	647.0	632.6
80°	748.8	391.6	318.5	361.5	401.7	741.7	893.7	651.3	526.5	520.7	526.5
82.5°	347.2	252.5	213.7	236.7	238.1	494.9	681.4	486.3	400.2	608.2	513.6
85°	149.2	126.2	120.5	117.6	109.0	220.9	383.0	261.1	407.4	182.2	167.8
87.5°	44.5	50.2	44.5	33.0	24.4	24.4	38.7	14.3	10.0	7.2	7.2
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)