

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: P453516

Luminaire Tested: **GALN-SA4C-740-U-T2R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453516
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-SA4C-740-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28344 lumens
Efficiency: N/A
Efficacy: 133.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

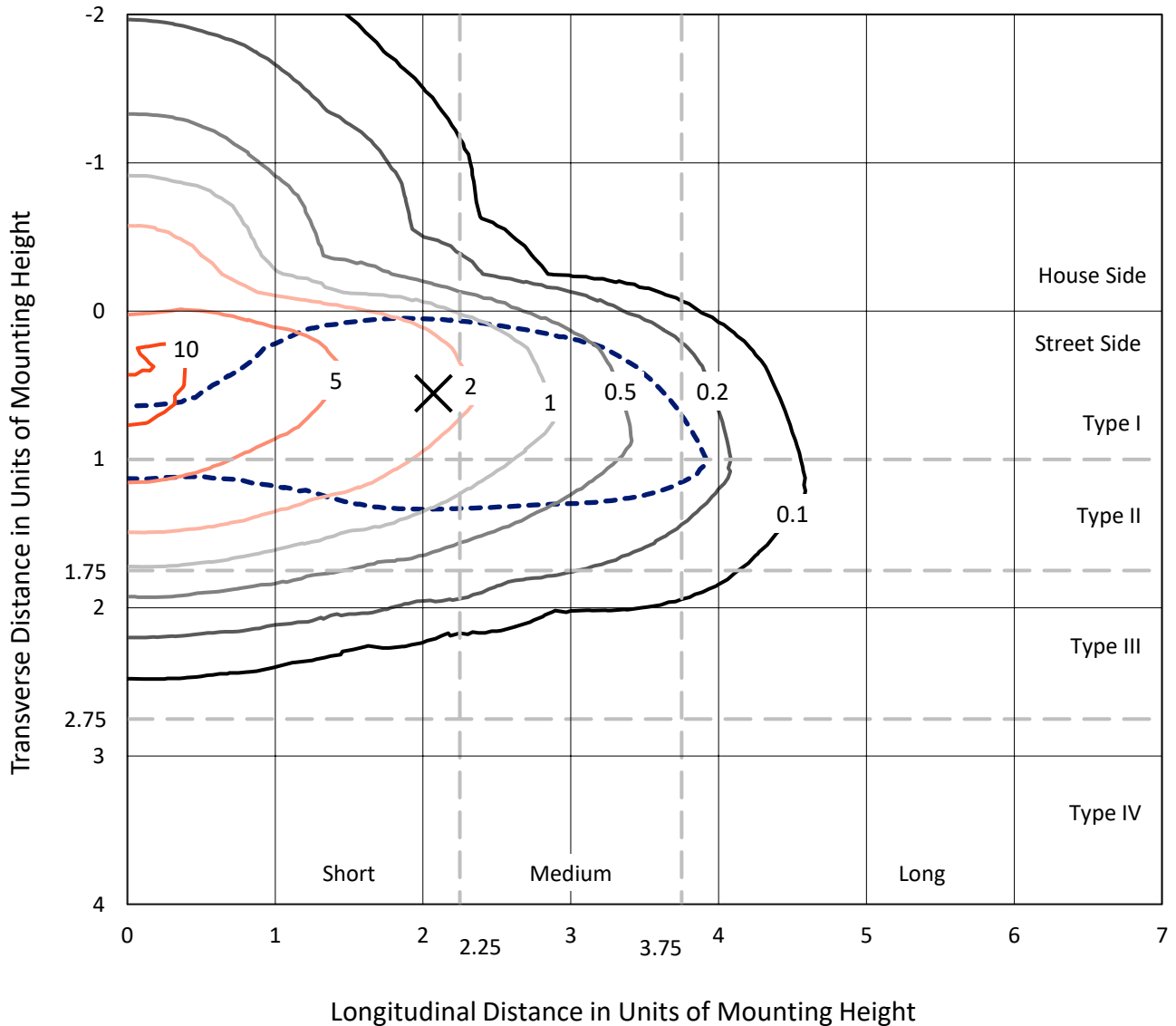
Input Watts (W): 213
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

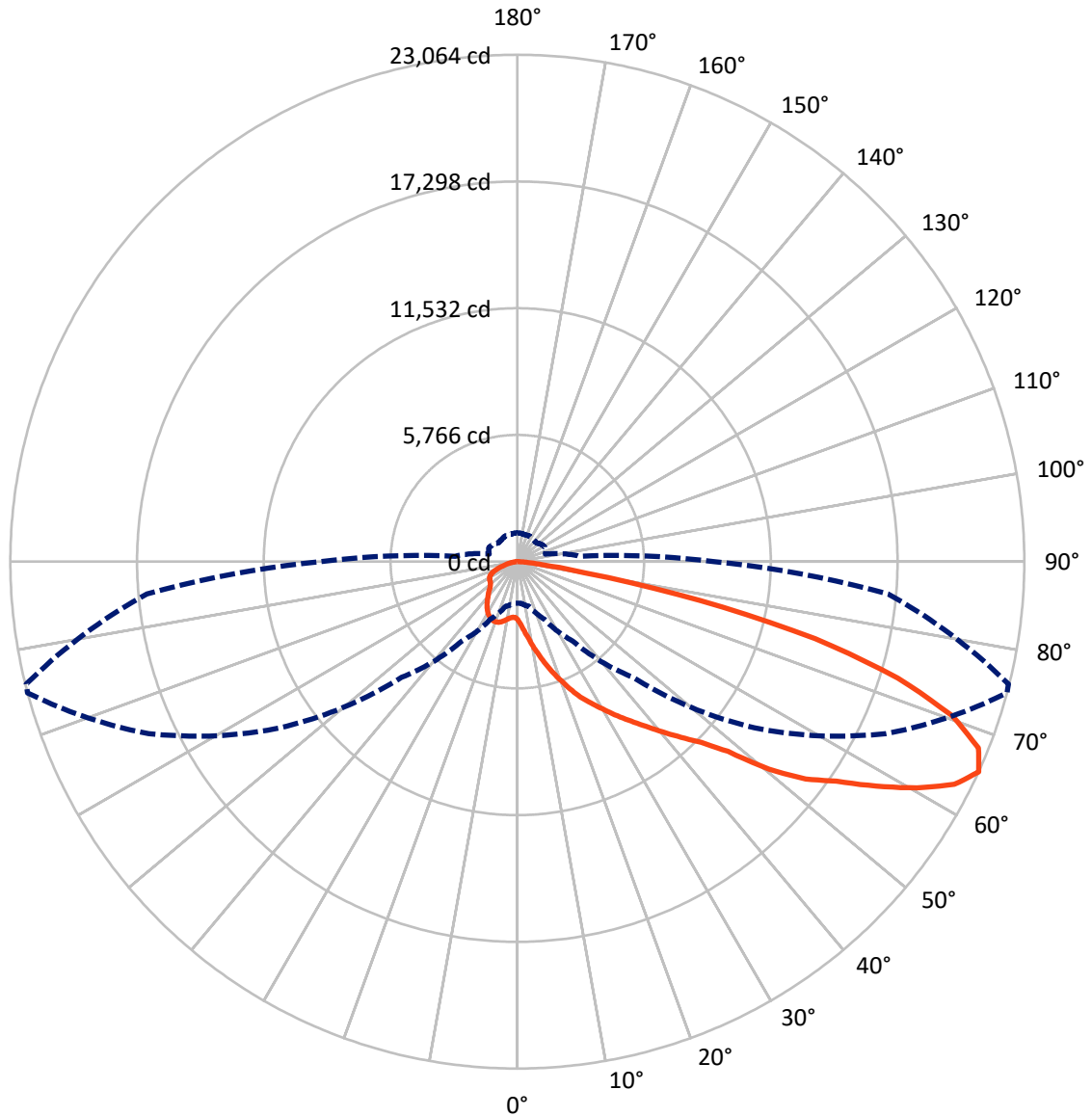
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 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	4765.0	0.0	4765.0
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	23579.0	0.0	23579.0
	% Fixture	83.2	0.0	83.2
Total	Lumens	28344.0	0.0	28344.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.0	1.1
10°-20°	1253.3	4.4
20°-30°	2420.9	8.5
30°-40°	3932.2	13.9
40°-50°	5409.1	19.1
50°-60°	6386.3	22.5
60°-70°	5595.5	19.7
70°-80°	2671.3	9.4
80°-90°	355.5	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°	28344.0	100.0
0°-180°	28344.0	100.0

Coefficient of Utilization



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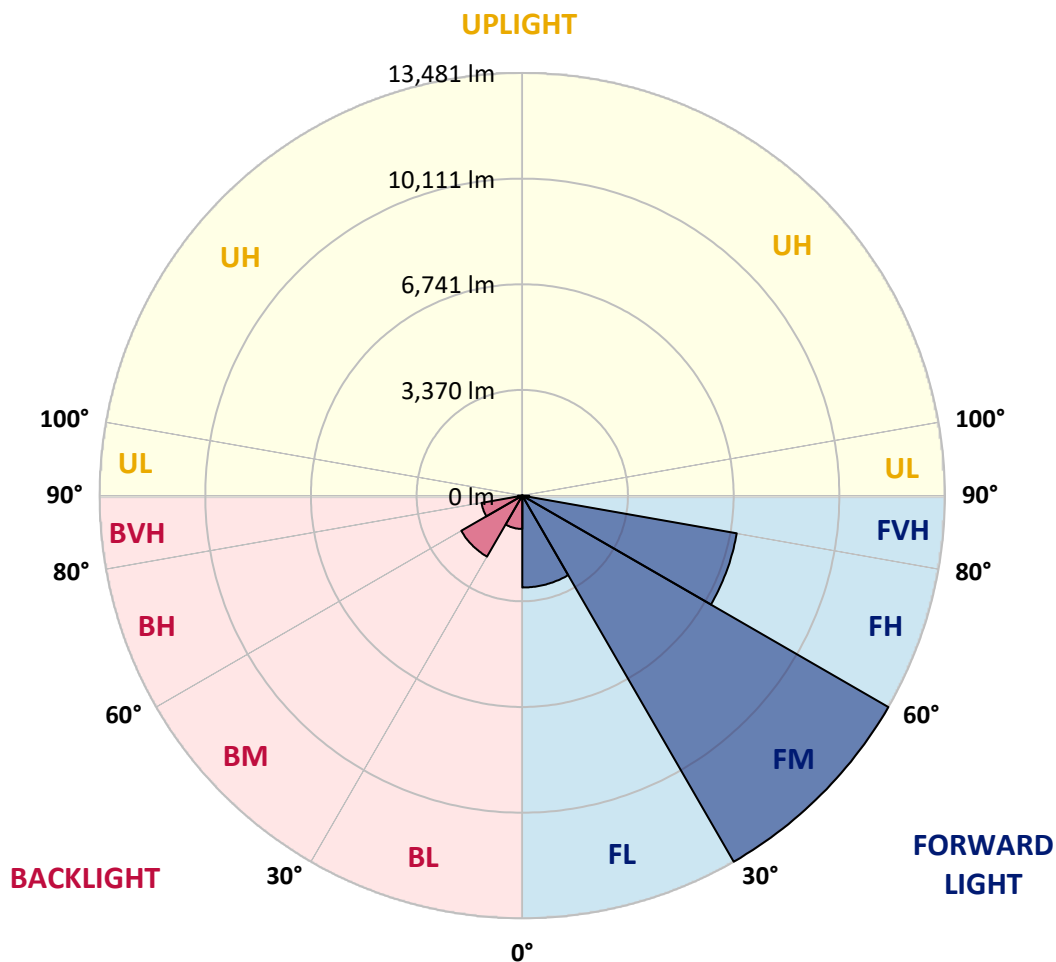
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2930.3	10.3			
FM	(30°-60°)	13481.0	47.6			
FH	(60°-80°)	6945.5	24.5			G3/7500
FVH	(80°-90°)	222.1	0.8			G2/225
BL	(0°-30°)	1063.8	3.8	B3/2500		
BM	(30°-60°)	2246.7	7.9	B2/2500		
BH	(60°-80°)	1321.2	4.7	B3/2500		G3/2500
BVH	(80°-90°)	133.3	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°	2633.5	2633.5	2633.5	2633.5	2633.5	2633.5	2633.5	2633.5	2633.5	2633.5	2633.5
2.5°	3499.1	3476.0	3451.4	3383.8	3311.5	3230.0	3113.2	3000.9	2851.8	2847.2	2736.5
5°	4469.1	4453.8	4344.6	4281.6	4114.0	3891.1	3702.0	3408.4	3136.2	3104.0	2888.7
7.5°	5360.8	5300.9	5259.3	5145.6	4979.5	4693.6	4327.7	3931.1	3476.0	3432.9	3076.3
10°	6032.6	6026.5	6005.0	5906.6	5782.1	5497.6	5091.8	4522.9	3906.5	3821.9	3303.8
12.5°	6535.4	6540.0	6536.9	6535.4	6446.2	6204.8	5765.1	5165.6	4341.5	4281.6	3566.7
15°	6865.9	6912.0	6930.5	7007.3	7015.0	6853.6	6475.4	5786.7	4832.0	4742.8	3849.6
17.5°	7084.2	7107.3	7193.4	7324.0	7430.1	7400.9	7064.2	6361.6	5333.1	5184.0	4143.2
20°	7293.3	7333.3	7399.4	7577.7	7765.3	7851.4	7614.6	6950.5	5829.7	5734.4	4467.6
22.5°	7728.4	7785.2	7808.3	7899.0	8058.9	8211.1	8103.5	7514.7	6373.9	6244.8	4812.0
25°	8464.8	8524.7	8460.1	8438.6	8490.9	8566.2	8543.2	8046.6	6887.4	6702.9	5137.9
27.5°	9424.1	9431.8	9305.7	9185.8	9056.6	9018.2	8947.5	8518.6	7333.3	7179.5	5465.4
30°	10454.1	10417.2	10208.1	9991.4	9773.1	9557.8	9354.9	8973.6	7829.8	7653.0	5786.7
32.5°	11410.4	11390.4	11158.2	10821.6	10452.6	10249.6	9839.2	9433.3	8361.8	8191.1	6117.2
35°	12126.8	12156.0	11900.8	11533.4	11130.6	10950.7	10432.6	9916.0	8912.1	8726.1	6476.9
37.5°	12635.6	12620.3	12394.3	12076.0	11722.4	11565.6	11125.9	10443.4	9504.0	9325.7	6870.5
40°	12817.1	12807.8	12640.3	12408.1	12183.7	12128.3	11851.6	11012.2	10182.0	9972.9	7344.0
42.5°	12701.8	12721.7	12611.0	12548.0	12506.5	12546.5	12572.6	11757.8	10921.5	10729.3	7857.5
45°	12348.2	12337.4	12322.0	12425.0	12658.7	12921.6	13286.0	12461.9	11725.5	11571.8	8546.2
47.5°	11716.3	11793.2	11831.6	12116.0	12626.4	13249.1	14106.9	13405.9	12892.4	12758.6	9596.3
50°	10832.3	10893.8	11121.3	11627.1	12388.1	13372.0	14909.4	14949.4	14838.7	14588.1	10737.0
52.5°	9451.8	9547.1	10016.0	10943.0	11899.2	13321.3	15395.2	16273.1	16419.1	16231.6	11860.8
55°	7906.7	8040.4	8535.5	9751.5	11225.9	13044.6	15730.4	17040.2	17622.9	17449.2	12943.1
57.5°	6393.9	6535.4	7044.2	8221.9	10051.3	12432.7	15950.2	17895.0	19261.7	19035.7	14289.9
60°	4792.0	4939.6	5376.2	6589.2	8378.7	11236.6	15801.1	18636.0	20899.0	20802.2	15638.1
62.5°	3091.7	3254.6	3634.3	4638.2	6440.0	9602.4	15003.2	19044.9	22316.5	22199.6	16622.0
65°	1883.3	1901.7	2110.8	2879.5	4407.6	7434.7	13178.3	18502.3	23063.6	23028.3	16921.8
67.5°	1217.6	1246.8	1342.1	1724.9	2642.7	5164.0	10537.1	16711.2	22627.0	22614.7	16302.3
70°	1028.5	1037.7	1080.8	1163.8	1535.8	3131.6	7399.4	13856.3	20968.2	20968.2	14812.6
72.5°	919.3	931.6	947.0	973.2	1096.1	1774.1	4415.3	10786.2	18104.1	18224.0	12608.0
75°	834.8	831.7	840.9	845.6	934.7	1159.2	2283.0	7977.4	14005.4	13765.6	9130.4
77.5°	714.9	719.5	714.9	734.9	825.6	882.5	1159.2	5353.1	8487.8	8177.3	4582.9
80°	587.3	595.0	602.6	614.9	705.7	670.3	696.4	2439.8	3139.3	3073.2	1415.9
82.5°	441.2	452.0	464.3	493.5	555.0	442.8	439.7	1042.3	1133.0	1037.7	521.2
85°	178.3	210.6	318.2	347.4	349.0	242.9	270.6	435.1	462.7	452.0	204.5
87.5°	41.5	49.2	103.0	155.3	143.0	90.7	99.9	141.4	161.4	149.1	69.2
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°	2633.5	2633.5	2633.5	2633.5	2633.5	2633.5	2633.5	2633.5	2633.5	2633.5	2633.5
2.5°	2685.8	2632.0	2539.7	2469.0	2418.3	2373.7	2346.0	2329.1	2323.0	2321.4	2323.0
5°	2776.5	2681.2	2535.1	2442.9	2392.1	2362.9	2346.0	2344.5	2346.0	2347.6	2343.0
7.5°	2901.0	2764.2	2573.6	2487.5	2449.0	2427.5	2419.8	2416.7	2418.3	2416.7	2416.7
10°	3067.1	2879.5	2648.9	2559.7	2527.4	2502.8	2490.5	2482.9	2476.7	2470.6	2467.5
12.5°	3250.0	3007.1	2730.4	2644.3	2598.2	2559.7	2532.0	2512.1	2498.2	2484.4	2481.3
15°	3454.5	3142.4	2821.1	2701.2	2635.1	2578.2	2530.5	2498.2	2473.6	2453.6	2452.1
17.5°	3649.7	3270.0	2882.6	2727.3	2630.4	2550.5	2487.5	2442.9	2412.1	2386.0	2382.9
20°	3858.8	3391.4	2910.2	2710.4	2584.3	2487.5	2404.4	2350.6	2315.3	2286.1	2281.5
22.5°	4069.4	3494.4	2907.2	2656.6	2504.4	2390.6	2303.0	2246.1	2204.6	2175.4	2164.6
25°	4270.8	3577.5	2868.7	2570.5	2393.7	2275.3	2186.1	2133.9	2097.0	2061.6	2061.6
27.5°	4452.2	3626.7	2796.5	2465.9	2279.9	2155.4	2084.7	2037.0	2003.2	1980.1	1966.3
30°	4630.6	3649.7	2698.1	2333.7	2160.0	2053.9	1997.0	1969.4	1938.6	1912.5	1909.4
32.5°	4790.4	3645.1	2575.1	2204.6	2046.2	1970.9	1947.8	1926.3	1894.0	1857.1	1847.9
35°	4945.7	3614.4	2429.0	2063.2	1950.9	1921.7	1927.9	1897.1	1838.7	1792.6	1784.9
37.5°	5114.8	3559.0	2269.2	1947.8	1871.0	1898.7	1914.0	1846.4	1751.1	1678.8	1661.9
40°	5310.1	3496.0	2103.1	1832.5	1807.9	1877.1	1877.1	1752.6	1621.9	1577.3	1565.0
42.5°	5539.1	3443.7	1964.8	1735.7	1755.7	1824.9	1817.2	1628.1	1574.3	1551.2	1545.1
45°	5902.0	3425.3	1821.8	1651.1	1712.6	1763.4	1700.3	1585.0	1554.3	1535.8	1529.7
47.5°	6475.4	3446.8	1695.7	1588.1	1663.4	1701.9	1569.7	1555.8	1534.3	1508.2	1505.1
50°	7007.3	3426.8	1606.6	1552.7	1620.4	1628.1	1515.8	1520.5	1508.2	1479.0	1472.8
52.5°	7442.4	3363.8	1549.7	1534.3	1583.5	1498.9	1465.1	1482.0	1477.4	1440.5	1434.4
55°	7920.5	3325.3	1522.0	1534.3	1558.9	1386.7	1417.5	1442.1	1435.9	1409.8	1408.2
57.5°	8500.1	3333.0	1502.0	1538.9	1534.3	1329.8	1369.8	1399.0	1397.5	1389.8	1389.8
60°	9093.5	3336.1	1471.3	1537.4	1505.1	1285.2	1320.6	1362.1	1365.2	1369.8	1369.8
62.5°	9290.3	3202.3	1411.3	1509.7	1440.5	1242.2	1274.5	1331.4	1328.3	1340.6	1342.1
65°	8922.9	2831.8	1322.1	1446.7	1357.5	1211.4	1239.1	1291.4	1274.5	1306.8	1312.9
67.5°	8121.9	2343.0	1183.8	1332.9	1265.3	1179.2	1216.1	1236.0	1205.3	1268.3	1269.9
70°	7019.6	1829.5	1008.5	1171.5	1160.7	1145.3	1197.6	1166.9	1123.8	1200.7	1185.3
72.5°	5869.7	1397.5	805.6	957.8	1020.8	1094.6	1165.3	1077.7	1017.7	1040.8	1013.1
75°	4409.2	1033.1	647.2	750.2	850.2	1022.4	1136.1	970.1	877.8	856.3	850.2
77.5°	2247.6	674.9	484.3	561.1	638.0	924.0	1096.1	844.0	727.2	693.4	678.0
80°	802.5	419.7	341.3	387.4	430.5	794.8	957.8	698.0	564.2	558.1	564.2
82.5°	372.0	270.6	229.1	253.7	255.2	530.4	730.3	521.2	428.9	651.8	550.4
85°	159.9	135.3	129.1	126.1	116.8	236.8	410.5	279.8	436.6	195.2	179.9
87.5°	47.7	53.8	47.7	35.4	26.1	26.1	41.5	15.4	10.8	7.7	7.7
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)