

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: P648450

Luminaire Tested: **GALN-SA5B-835-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P648450
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5B-835-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22439.2 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

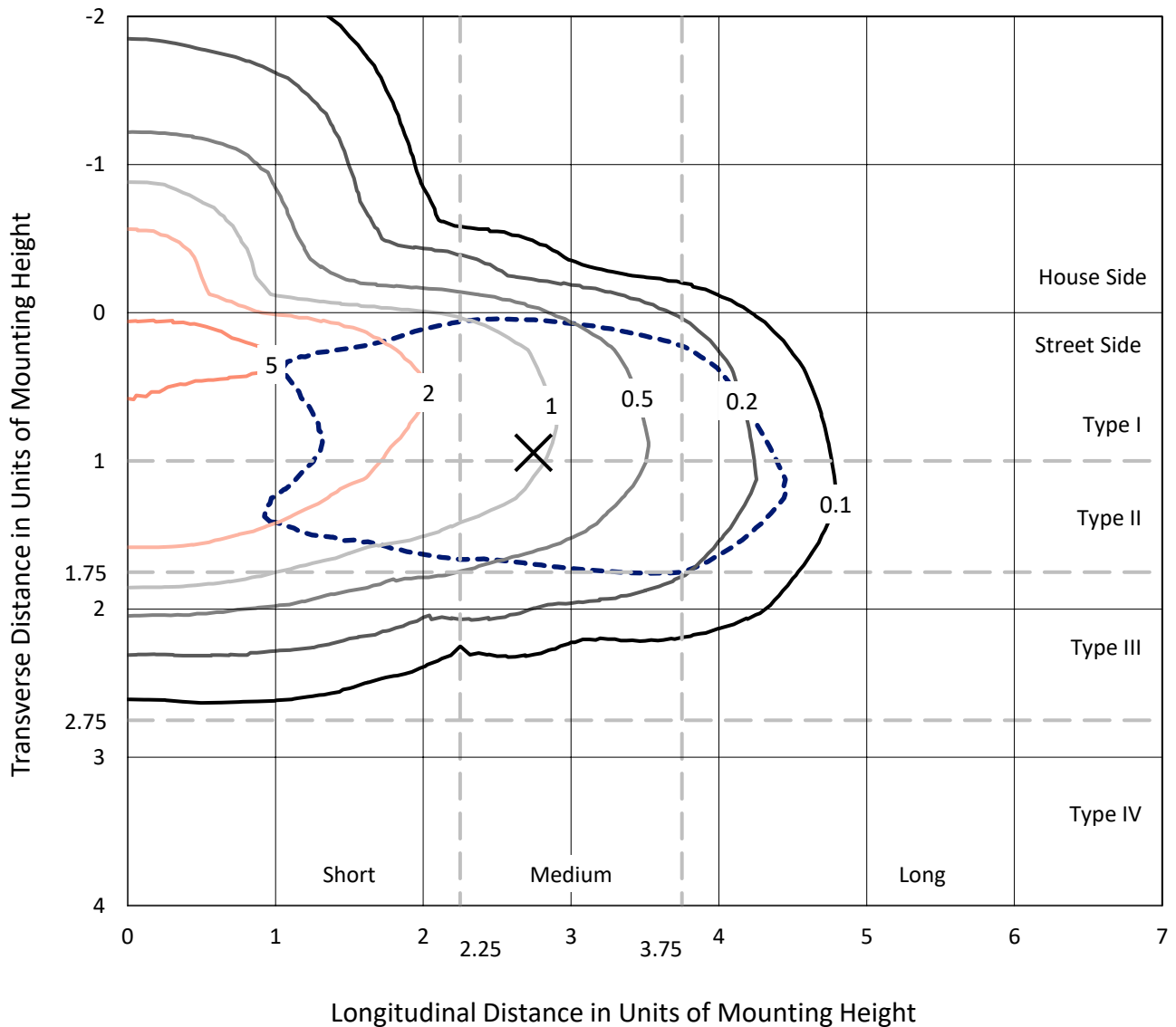
Input Watts (W): 204
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

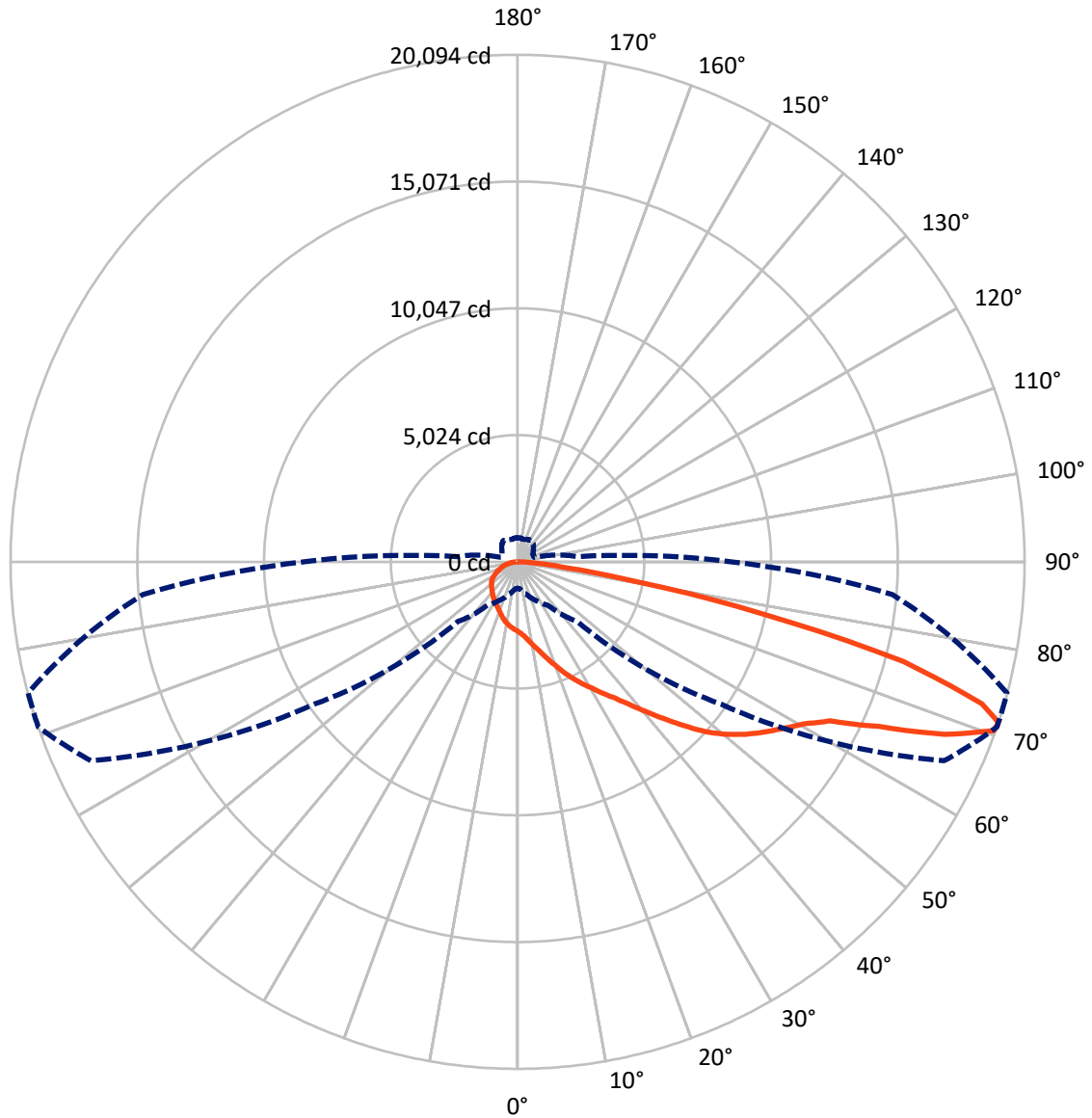
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4035.6	0.0	4035.6
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	18403.6	0.0	18403.6
	% Fixture	82.0	0.0	82.0
Total	Lumens	22439.2	0.0	22439.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	276.5	1.2
10°-20°	898.4	4.0
20°-30°	1570.0	7.0
30°-40°	2335.2	10.4
40°-50°	3440.6	15.3
50°-60°	4816.9	21.5
60°-70°	5387.5	24.0
70°-80°	3290.9	14.7
80°-90°	423.3	1.9
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°	22439.2	100.0
0°-180°	22439.2	100.0

Coefficient of Utilization

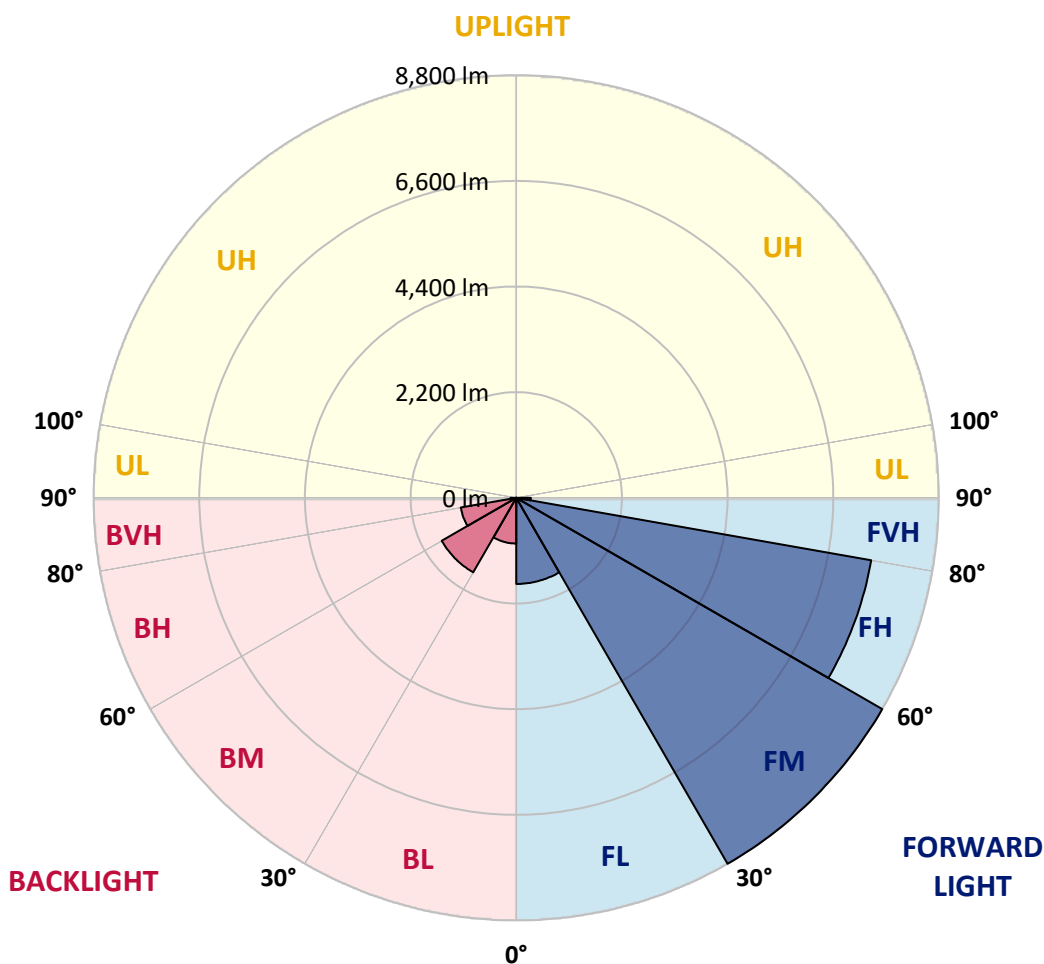


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1792.9	8.0			
FM (30°-60°)	8800.2	39.2			
FH (60°-80°)	7505.8	33.4			G4/12000
FVH (80°-90°)	304.6	1.4			G3/500
BL (0°-30°)	952.0	4.2	B2/1000		
BM (30°-60°)	1792.4	8.0	B2/2500		
BH (60°-80°)	1172.5	5.2	B3/2500		G3/2500
BVH (80°-90°)	118.7	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-G4
 Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2754.0	2754.0	2754.0	2754.0	2754.0	2754.0	2754.0	2754.0	2754.0	2754.0	2754.0
2.5°	3057.4	3042.6	3043.8	3022.8	2995.7	2966.1	2924.2	2887.2	2857.6	2840.3	2789.8
5°	3387.9	3373.1	3354.6	3309.0	3289.2	3216.5	3123.9	3040.1	2975.9	2940.2	2839.1
7.5°	3655.5	3651.8	3646.9	3621.0	3570.4	3469.3	3390.4	3244.8	3149.9	3082.0	2909.4
10°	3820.8	3826.9	3830.7	3835.6	3814.6	3761.6	3653.1	3469.3	3348.4	3262.1	3000.6
12.5°	3904.7	3910.9	3931.8	3977.4	4005.7	3999.6	3910.9	3730.8	3564.2	3450.8	3098.1
15°	3956.4	3966.3	4003.3	4063.8	4158.7	4219.1	4176.0	4009.5	3826.9	3692.5	3214.0
17.5°	4013.2	4024.3	4064.9	4151.3	4275.9	4406.6	4453.5	4310.4	4111.8	3951.5	3343.5
20°	4045.2	4060.0	4118.0	4231.5	4377.0	4566.9	4722.4	4647.1	4430.1	4252.5	3492.7
22.5°	4097.0	4109.3	4158.7	4279.6	4453.5	4691.5	4991.2	4975.2	4784.0	4554.6	3656.8
25°	4237.7	4257.4	4282.1	4354.8	4522.5	4818.5	5214.4	5325.4	5126.8	4870.3	3807.2
27.5°	4502.8	4518.8	4517.6	4527.5	4622.4	4928.3	5408.0	5672.0	5467.2	5189.7	3952.7
30°	4805.0	4811.1	4816.1	4793.8	4814.8	5040.5	5585.6	6014.8	5810.1	5517.8	4079.7
32.5°	5172.5	5184.8	5142.9	5086.1	5068.9	5207.0	5732.4	6357.7	6215.8	5850.8	4205.6
35°	5606.6	5638.7	5553.6	5453.7	5383.4	5446.3	5929.7	6708.0	6631.5	6276.3	4372.0
37.5°	6102.4	6141.9	6062.9	5866.9	5767.0	5784.2	6187.5	7140.8	7156.9	6761.0	4619.9
40°	6508.1	6560.0	6562.4	6284.9	6133.2	6153.0	6514.3	7607.0	7790.8	7360.4	4912.2
42.5°	6775.8	6826.4	6879.4	6716.6	6557.5	6669.8	6895.4	8112.7	8503.6	8088.0	5320.5
45°	7069.3	7115.0	7144.6	7070.6	6981.8	7272.8	7355.4	8650.4	9263.4	8900.8	5767.0
47.5°	7409.7	7460.3	7488.6	7418.3	7385.0	7801.9	7851.2	9152.3	10074.9	9690.1	6260.2
50°	7863.6	7901.8	7887.0	7842.6	7835.2	8207.6	8327.3	9622.3	10744.6	10539.8	6772.1
52.5°	8428.4	8474.0	8490.1	8427.2	8398.8	8497.5	8710.9	10050.2	11353.8	11270.0	7318.5
55°	8770.1	8842.8	9087.0	9185.7	9253.5	8872.4	9124.0	10522.6	11900.2	12039.6	7905.5
57.5°	8332.2	8425.9	8972.3	9465.6	10103.2	9809.7	9709.8	11015.9	12446.5	12785.7	8608.5
60°	7264.2	7285.1	7989.3	8898.3	10181.0	11014.6	10932.0	11800.3	13038.5	13538.0	9534.7
62.5°	5039.3	5083.7	5916.2	7366.5	9221.4	11448.8	13011.3	13154.4	13887.1	14664.0	10892.5
65°	2598.5	2540.6	3299.1	4629.8	6952.2	10417.7	14696.0	15644.5	15727.1	16425.1	12804.2
67.5°	1599.6	1625.5	1980.7	2703.4	4110.6	7571.3	14519.7	18687.1	18251.7	18587.2	14578.9
70°	1201.2	1233.3	1477.5	1850.0	2506.1	4328.9	11677.0	19424.6	20032.6	19946.2	15119.1
71°	1044.6	1077.9	1332.0	1683.4	2105.3	3341.1	9838.1	18652.5	20094.2	20079.4	14915.6
72.5°	890.4	911.4	1110.0	1425.7	1774.7	2342.0	7391.2	16728.6	19237.1	19729.2	14189.2
75°	699.3	715.3	804.1	1087.7	1397.3	1438.1	3966.3	12541.5	15799.8	16737.2	11812.6
77.5°	569.8	580.9	626.6	807.8	1077.9	1018.7	2080.6	8163.2	9898.5	10842.0	6958.3
80°	452.7	464.9	492.1	547.6	807.8	726.4	992.8	4136.5	4781.5	4771.7	2777.4
82.5°	351.5	355.2	387.3	402.1	552.5	515.5	537.7	1751.3	1940.0	2004.1	1002.7
85°	222.0	233.1	342.9	308.3	330.5	302.2	265.1	695.6	857.2	844.8	400.8
87.5°	67.8	71.6	116.0	130.8	146.7	131.9	97.4	204.8	250.3	271.3	99.9
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°	2754.0	2754.0	2754.0	2754.0	2754.0	2754.0	2754.0	2754.0	2754.0	2754.0	2754.0
2.5°	2770.0	2756.5	2708.3	2668.9	2631.9	2591.2	2556.7	2546.8	2538.2	2534.4	2533.2
5°	2795.9	2755.2	2660.2	2582.6	2520.9	2464.2	2428.4	2412.3	2396.3	2396.3	2401.2
7.5°	2832.9	2758.9	2612.2	2496.2	2418.5	2365.4	2339.6	2337.1	2340.8	2344.5	2345.7
10°	2873.6	2756.5	2541.9	2397.5	2328.5	2303.8	2305.1	2326.0	2345.7	2360.5	2363.0
12.5°	2913.1	2741.7	2459.2	2305.1	2260.7	2265.6	2300.1	2347.0	2385.2	2406.2	2407.4
15°	2957.5	2718.2	2359.3	2217.5	2202.7	2240.9	2305.1	2376.6	2434.6	2469.1	2472.8
17.5°	2994.4	2678.7	2254.5	2132.4	2150.9	2221.2	2310.0	2402.5	2472.8	2515.9	2523.4
20°	3036.4	2628.1	2146.0	2051.0	2104.0	2199.0	2300.1	2400.0	2472.8	2514.7	2524.5
22.5°	3069.7	2556.7	2042.4	1984.4	2062.1	2171.9	2266.8	2347.0	2406.2	2428.4	2443.2
25°	3083.3	2466.6	1944.9	1930.1	2028.8	2127.5	2191.6	2237.2	2255.7	2253.2	2259.4
27.5°	3075.9	2363.0	1861.0	1887.0	1986.9	2058.4	2090.5	2086.8	2053.4	2022.6	2037.4
30°	3045.0	2239.7	1790.7	1842.6	1932.6	1972.1	1967.1	1919.1	1856.1	1798.2	1801.8
32.5°	2989.5	2106.5	1725.4	1792.0	1856.1	1873.4	1840.1	1777.2	1687.1	1612.0	1600.8
35°	2942.7	1979.4	1667.4	1734.0	1779.7	1771.0	1739.0	1657.5	1576.2	1509.5	1498.4
37.5°	2935.2	1870.9	1612.0	1668.7	1694.6	1682.2	1642.7	1573.7	1544.1	1493.5	1487.4
40°	2974.7	1794.5	1555.2	1599.6	1612.0	1602.1	1558.9	1519.4	1546.6	1534.2	1534.2
42.5°	3082.0	1753.8	1504.6	1530.5	1540.4	1547.8	1517.0	1483.6	1517.0	1460.2	1441.7
45°	3252.2	1755.0	1459.0	1462.7	1492.3	1518.2	1497.3	1447.9	1430.6	1317.2	1295.0
47.5°	3502.6	1796.9	1422.0	1398.6	1451.6	1494.7	1465.1	1393.7	1317.2	1241.9	1228.4
50°	3794.9	1872.2	1388.7	1332.0	1397.3	1465.1	1443.0	1359.1	1280.2	1234.6	1225.9
52.5°	4119.2	1967.1	1348.0	1258.0	1330.7	1451.6	1447.9	1354.2	1245.7	1214.8	1207.4
55°	4520.1	2060.9	1297.4	1171.6	1271.5	1440.5	1434.3	1313.5	1238.2	1216.1	1213.6
57.5°	4986.2	2196.5	1224.7	1084.1	1203.7	1394.8	1381.3	1288.8	1213.6	1197.5	1196.3
60°	5737.4	2407.4	1121.1	1003.9	1134.6	1314.7	1332.0	1246.8	1174.1	1170.4	1169.2
62.5°	6725.2	2703.4	1013.8	921.3	1054.5	1211.1	1260.5	1190.2	1132.1	1150.7	1153.1
65°	8089.3	2952.5	902.8	851.0	965.7	1111.2	1192.6	1137.1	1085.3	1121.1	1121.1
67.5°	8978.4	2957.5	801.6	778.2	875.6	1027.4	1121.1	1074.2	1024.9	1085.3	1087.7
70°	8793.5	2591.2	717.8	701.7	788.1	937.3	1042.2	1005.1	948.4	1002.7	983.0
71°	8495.0	2387.7	684.5	672.1	753.6	894.1	1005.1	974.3	917.6	953.4	942.3
72.5°	8018.9	2073.1	630.2	632.7	701.7	839.8	953.4	921.3	864.5	884.2	880.6
75°	6778.3	1810.5	538.9	550.1	603.1	747.4	849.7	825.0	767.1	767.1	763.4
77.5°	4237.7	1265.4	447.7	453.8	511.8	640.1	730.1	709.2	653.6	635.2	630.2
80°	1581.1	653.6	350.2	357.7	393.5	504.4	604.3	584.6	527.8	506.9	487.2
82.5°	598.1	328.1	257.8	251.6	289.8	384.8	473.6	450.1	405.8	355.2	340.4
85°	225.7	162.8	157.9	152.9	170.2	228.2	293.5	288.6	241.7	205.9	202.2
87.5°	59.2	53.0	61.7	45.6	48.1	43.1	44.4	18.5	8.6	3.7	2.5
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)