

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: P646910

Luminaire Tested: **GALN-SA4C-835-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P646910
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-SA4C-835-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21900.5 lumens
Efficiency: N/A
Efficacy: 102.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

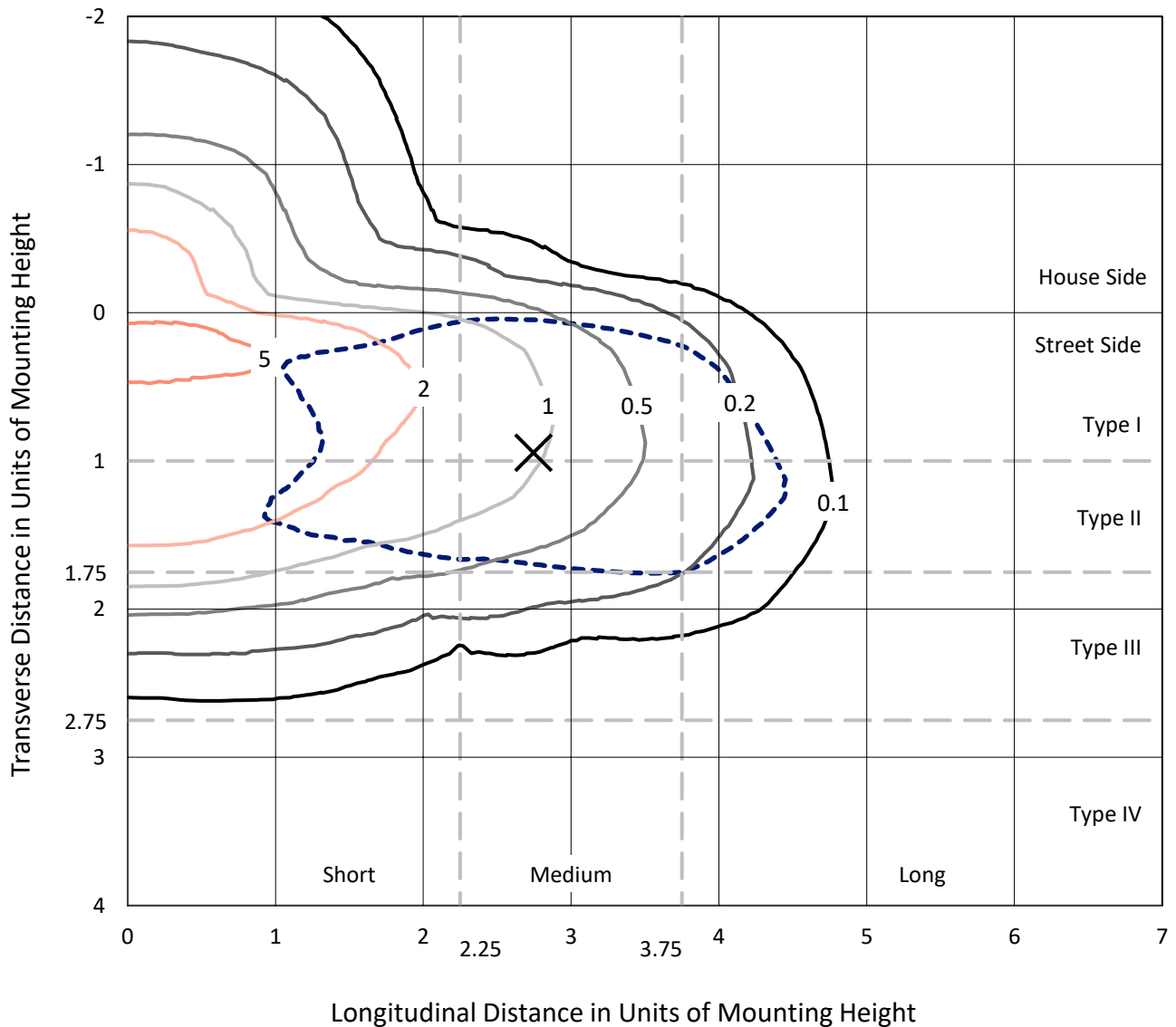
Input Watts (W): 213
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

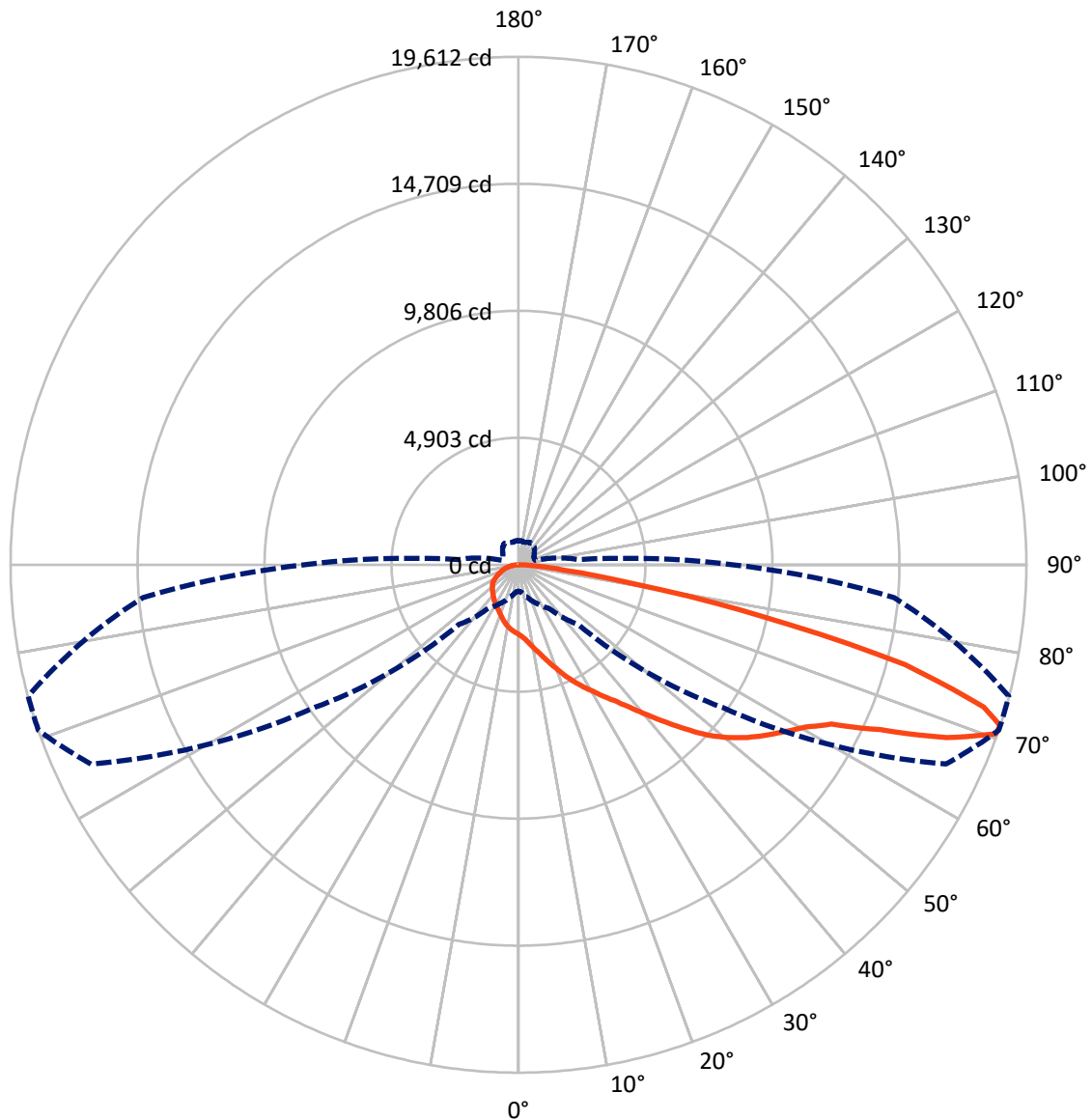
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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	3938.8	0.0	3938.8
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	17961.8	0.0	17961.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	21900.5	0.0	21900.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	269.9	1.2
10°-20°	876.8	4.0
20°-30°	1532.3	7.0
30°-40°	2279.1	10.4
40°-50°	3358.0	15.3
50°-60°	4701.2	21.5
60°-70°	5258.1	24.0
70°-80°	3211.9	14.7
80°-90°	413.2	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°	21900.5	100.0
0°-180°	21900.5	100.0

Coefficient of Utilization



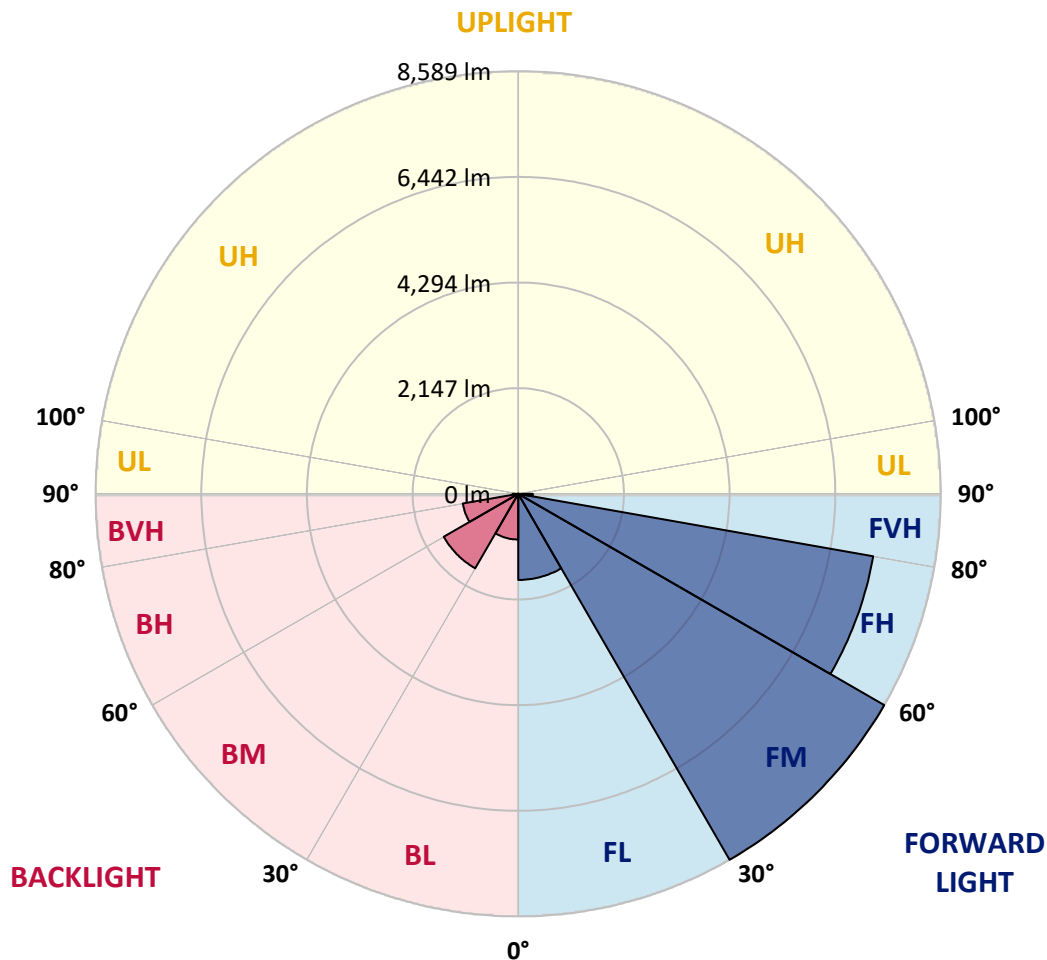
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1749.9	8.0			
FM (30°-60°)	8589.0	39.2			
FH (60°-80°)	7325.7	33.4			G3/7500
FVH (80°-90°)	297.3	1.4			G3/500
BL (0°-30°)	929.1	4.2	B2/1000		
BM (30°-60°)	1749.4	8.0	B2/2500		
BH (60°-80°)	1144.4	5.2	B3/2500		G3/2500
BVH (80°-90°)	115.9	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 Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	2687.9	2687.9	2687.9	2687.9	2687.9	2687.9	2687.9	2687.9	2687.9	2687.9	2687.9
2.5°	2983.9	2969.5	2970.7	2950.3	2923.8	2894.9	2854.0	2817.9	2789.0	2772.1	2722.7
5°	3306.5	3292.1	3274.0	3229.5	3210.2	3139.2	3049.0	2967.1	2904.5	2869.6	2770.9
7.5°	3567.7	3564.1	3559.4	3534.1	3484.7	3386.0	3309.0	3166.9	3074.2	3008.1	2839.5
10°	3729.0	3735.1	3738.7	3743.5	3723.0	3671.3	3565.3	3386.0	3268.0	3183.8	2928.6
12.5°	3810.9	3816.9	3837.4	3882.0	3909.6	3903.6	3816.9	3641.2	3478.7	3367.9	3023.7
15°	3861.4	3871.1	3907.2	3966.2	4058.8	4117.9	4075.7	3913.2	3735.1	3603.8	3136.9
17.5°	3916.8	3927.7	3967.4	4051.6	4173.2	4300.8	4346.5	4206.9	4013.1	3856.7	3263.2
20°	3948.1	3962.6	4019.1	4129.9	4271.9	4457.3	4609.0	4535.5	4323.6	4150.4	3408.9
22.5°	3998.7	4010.7	4058.8	4176.8	4346.5	4578.8	4871.4	4855.7	4669.1	4445.2	3569.0
25°	4135.9	4155.1	4179.3	4250.3	4413.9	4702.9	5089.3	5197.6	5003.8	4753.4	3715.8
27.5°	4394.7	4410.3	4409.2	4418.8	4511.5	4810.0	5278.2	5535.8	5336.0	5065.1	3857.8
30°	4689.6	4695.7	4700.4	4678.7	4699.3	4919.5	5451.6	5870.5	5670.6	5385.3	3981.9
32.5°	5048.3	5060.4	5019.4	4964.1	4947.2	5082.0	5594.8	6205.0	6066.6	5710.3	4104.6
35°	5472.0	5503.3	5420.2	5322.8	5254.2	5315.6	5787.4	6546.9	6472.3	6125.6	4267.1
37.5°	5955.9	5994.4	5917.4	5726.0	5628.5	5645.4	6039.0	6969.4	6985.1	6598.7	4509.1
40°	6351.9	6402.4	6404.9	6134.0	5986.0	6005.2	6358.0	7424.4	7603.8	7183.6	4794.3
42.5°	6613.1	6662.5	6714.2	6555.4	6400.1	6509.6	6729.9	7917.9	8299.5	7893.8	5192.8
45°	6899.6	6944.1	6973.0	6900.8	6814.1	7098.2	7178.9	8442.7	9041.0	8687.1	5628.5
47.5°	7231.8	7281.2	7308.8	7240.2	7207.7	7614.6	7662.8	8932.6	9833.0	9457.5	6110.0
50°	7674.8	7712.1	7697.7	7654.3	7647.1	8010.6	8127.4	9391.2	10486.6	10286.8	6609.5
52.5°	8226.0	8270.6	8286.3	8224.9	8197.1	8293.5	8501.7	9809.0	11081.3	10999.3	7142.8
55°	8559.5	8630.5	8868.8	8965.1	9031.4	8659.4	8905.0	10269.9	11614.5	11750.5	7715.7
57.5°	8132.2	8223.7	8756.9	9238.4	9860.7	9574.2	9476.7	10751.5	12147.7	12478.7	8401.8
60°	7089.8	7110.3	7797.6	8684.6	9936.5	10750.2	10669.5	11517.0	12725.5	13213.0	9305.8
62.5°	4918.3	4961.6	5774.2	7189.7	9000.0	11174.0	12699.0	12838.6	13553.7	14312.0	10631.0
65°	2536.2	2479.6	3219.9	4518.7	6785.2	10167.6	14343.2	15268.9	15349.5	16030.8	12496.8
67.5°	1561.2	1586.4	1933.1	2638.5	4011.9	7389.5	14171.1	18238.4	17813.5	18140.9	14228.9
70°	1172.4	1203.7	1442.1	1805.5	2445.9	4225.0	11396.6	18958.2	19551.7	19467.4	14756.1
71°	1019.5	1052.0	1300.0	1643.0	2054.7	3260.8	9601.9	18204.8	19611.8	19597.4	14557.5
72.5°	869.1	889.6	1083.4	1391.5	1732.2	2285.8	7213.8	16327.0	18775.2	19255.5	13848.5
75°	682.5	698.1	784.8	1061.7	1363.8	1403.5	3871.1	12240.4	15420.6	16335.3	11529.0
77.5°	556.1	567.0	611.4	788.4	1052.0	994.3	2030.6	7967.3	9660.9	10581.7	6791.3
80°	441.8	453.8	480.3	534.5	788.4	709.0	969.0	4037.2	4666.8	4657.1	2710.7
82.5°	343.0	346.6	378.0	392.4	539.3	503.2	524.8	1709.3	1893.5	1956.0	978.6
85°	216.7	227.5	334.7	300.9	322.6	294.9	258.8	678.9	836.6	824.5	391.2
87.5°	66.2	69.8	113.1	127.6	143.2	128.8	95.1	199.8	244.4	264.8	97.5
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°	2687.9	2687.9	2687.9	2687.9	2687.9	2687.9	2687.9	2687.9	2687.9	2687.9	2687.9
2.5°	2703.5	2690.2	2643.3	2604.8	2568.7	2528.9	2495.3	2485.6	2477.2	2473.6	2472.4
5°	2728.8	2689.1	2596.3	2520.6	2460.3	2405.0	2370.1	2354.4	2338.8	2338.8	2343.6
7.5°	2764.9	2692.7	2549.4	2436.3	2360.4	2308.7	2283.4	2281.0	2284.6	2288.2	2289.4
10°	2804.6	2690.2	2480.9	2340.0	2272.6	2248.5	2249.7	2270.2	2289.4	2303.9	2306.2
12.5°	2843.2	2675.8	2400.2	2249.7	2206.4	2211.2	2244.9	2290.7	2327.9	2348.5	2349.6
15°	2886.5	2653.0	2302.6	2164.2	2149.8	2187.2	2249.7	2319.6	2376.1	2409.8	2413.4
17.5°	2922.5	2614.4	2200.4	2081.2	2099.2	2167.9	2254.5	2344.8	2413.4	2455.6	2462.8
20°	2963.5	2565.1	2094.4	2001.7	2053.5	2146.2	2244.9	2342.4	2413.4	2454.3	2463.9
22.5°	2996.0	2495.3	1993.4	1936.8	2012.5	2119.7	2212.4	2290.7	2348.5	2370.1	2384.5
25°	3009.2	2407.4	1898.2	1883.8	1980.1	2076.4	2139.0	2183.5	2201.6	2199.1	2205.2
27.5°	3002.0	2306.2	1816.4	1841.7	1939.2	2008.9	2040.3	2036.7	2004.2	1974.1	1988.5
30°	2972.0	2185.9	1747.7	1798.3	1886.2	1924.7	1919.9	1872.9	1811.5	1755.0	1758.6
32.5°	2917.8	2055.9	1684.0	1749.0	1811.5	1828.4	1795.9	1734.5	1646.6	1573.2	1562.4
35°	2872.0	1931.9	1627.4	1692.4	1736.9	1728.5	1697.2	1617.8	1538.4	1473.3	1462.5
37.5°	2864.8	1826.0	1573.2	1628.6	1653.9	1641.9	1603.3	1535.9	1507.0	1457.7	1451.7
40°	2903.3	1751.4	1517.8	1561.2	1573.2	1563.6	1521.4	1482.9	1509.5	1497.4	1497.4
42.5°	3008.1	1711.6	1468.5	1493.8	1503.4	1510.6	1480.6	1448.1	1480.6	1425.1	1407.1
45°	3174.1	1712.9	1424.0	1427.6	1456.5	1481.7	1461.3	1413.2	1396.3	1285.5	1263.9
47.5°	3418.5	1753.8	1387.9	1365.0	1416.8	1458.9	1430.0	1360.1	1285.5	1212.1	1198.9
50°	3703.7	1827.2	1355.4	1300.0	1363.8	1430.0	1408.3	1326.5	1249.4	1204.9	1196.5
52.5°	4020.3	1919.9	1315.7	1227.7	1298.8	1416.8	1413.2	1321.6	1215.8	1185.6	1178.4
55°	4411.6	2011.4	1266.3	1143.5	1241.0	1406.0	1399.9	1281.9	1208.5	1186.9	1184.4
57.5°	4866.6	2143.8	1195.2	1058.1	1174.8	1361.4	1348.2	1257.9	1184.4	1168.8	1167.6
60°	5599.6	2349.6	1094.2	979.8	1107.4	1283.1	1300.0	1216.9	1145.9	1142.3	1141.1
62.5°	6563.7	2638.5	989.5	899.2	1029.2	1182.0	1230.2	1161.6	1105.0	1123.1	1125.5
65°	7895.1	2881.7	881.1	830.5	942.5	1084.5	1164.0	1109.8	1059.2	1094.2	1094.2
67.5°	8762.9	2886.5	782.4	759.5	854.6	1002.7	1094.2	1048.4	1000.3	1059.2	1061.7
70°	8582.4	2528.9	700.6	684.9	769.1	914.8	1017.1	981.0	925.7	978.6	959.3
71°	8291.0	2330.4	668.1	656.0	735.5	872.7	981.0	951.0	895.5	930.4	919.6
72.5°	7826.5	2023.4	615.1	617.5	684.9	819.7	930.4	899.2	843.8	863.0	859.4
75°	6615.5	1767.0	526.0	536.8	588.6	729.4	829.4	805.2	748.7	748.7	745.1
77.5°	4135.9	1235.0	436.9	442.9	499.6	624.8	712.6	692.1	638.0	619.9	615.1
80°	1543.1	638.0	341.9	349.1	384.0	492.4	589.8	570.6	515.2	494.7	475.4
82.5°	583.8	320.2	251.6	245.5	282.9	375.5	462.2	439.3	396.0	346.6	332.2
85°	220.3	158.9	154.1	149.2	166.1	222.7	286.5	281.6	235.9	201.0	197.4
87.5°	57.8	51.8	60.2	44.6	47.0	42.1	43.3	18.1	8.5	3.6	2.4
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)