

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: P454993

Luminaire Tested: **GALN-SA6A-827-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454993
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-SA6A-827-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20049 lumens
Efficiency: N/A
Efficacy: 110.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

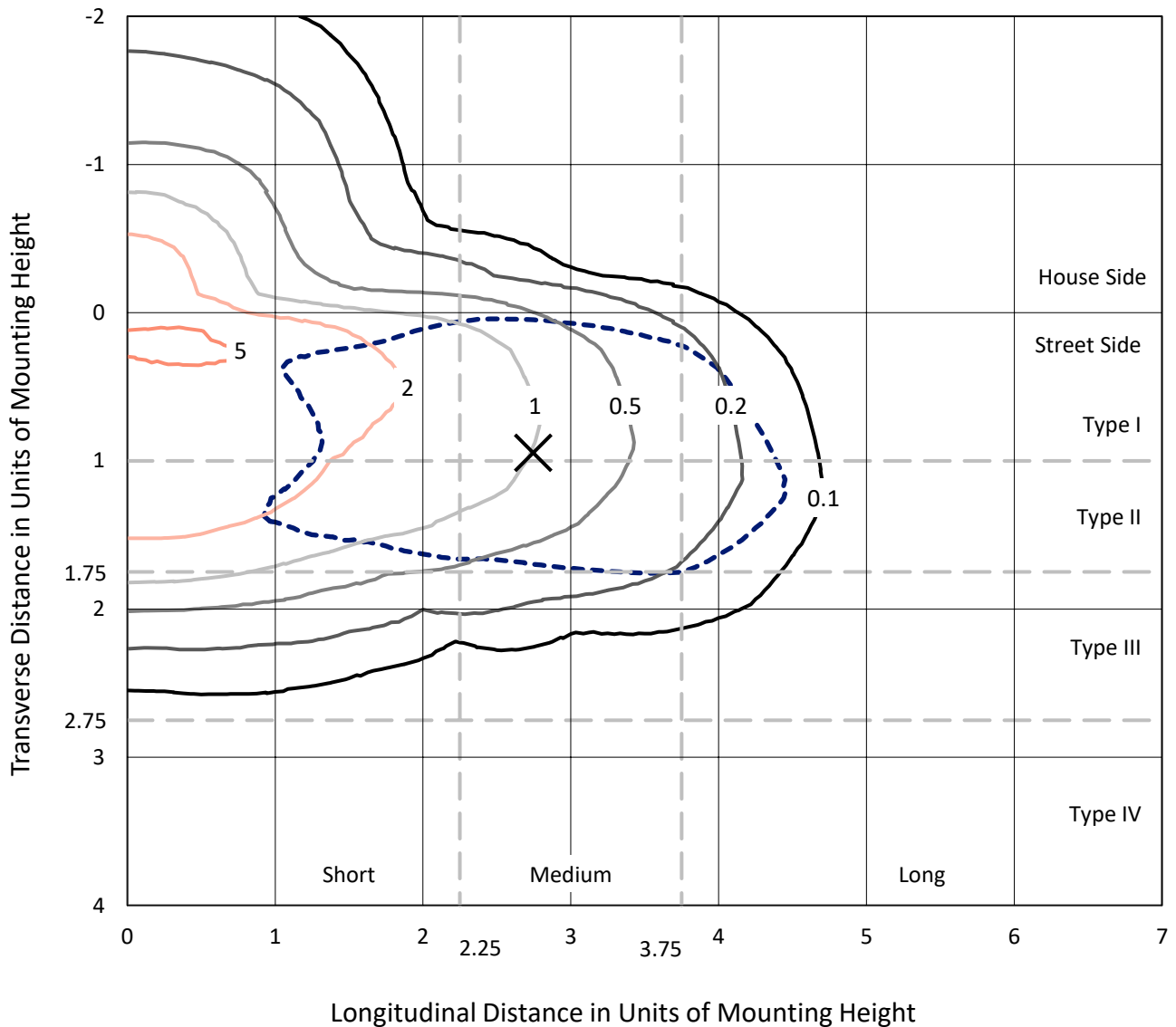
Input Watts (W): 182
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

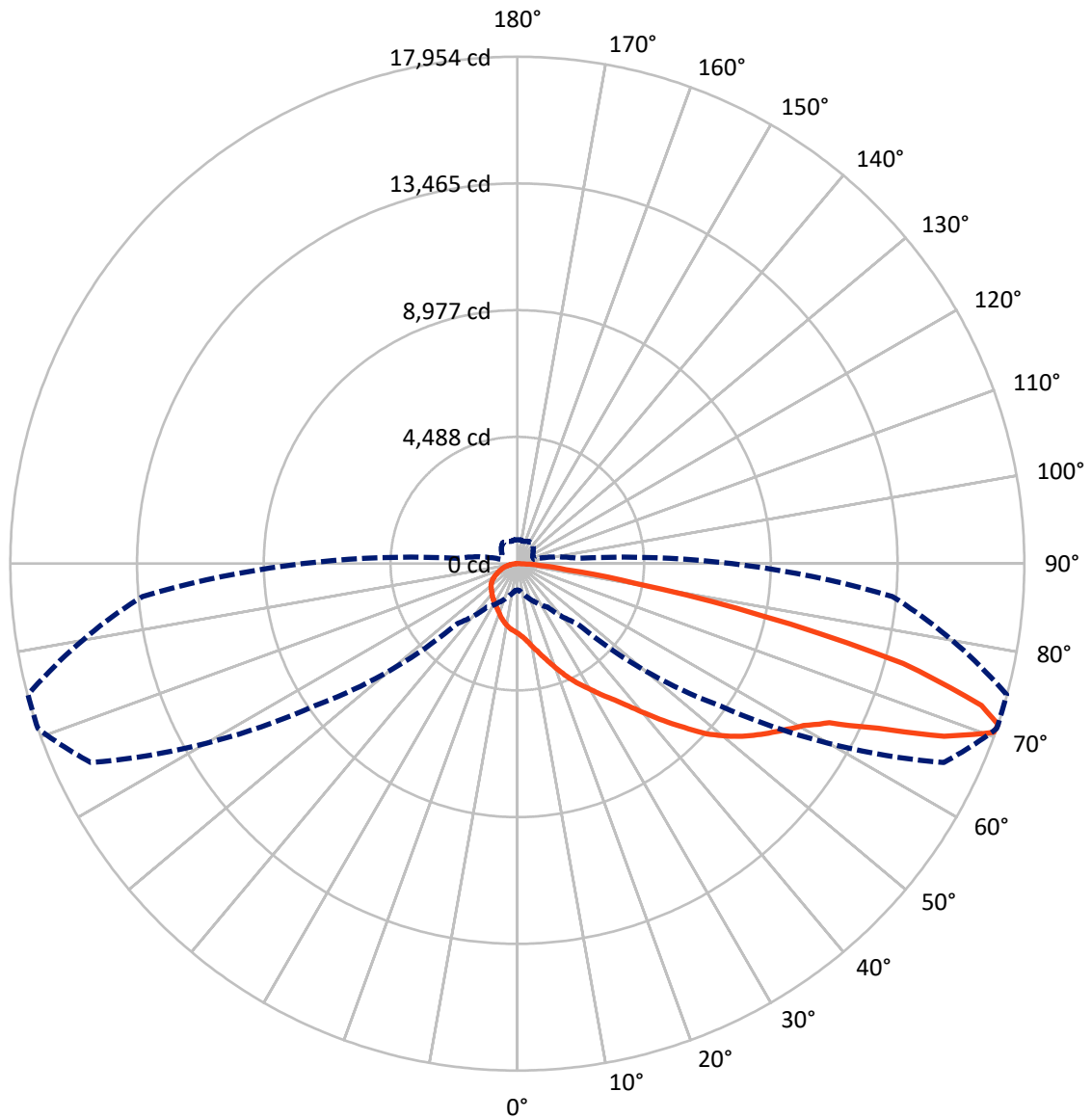
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 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	3605.8	0.0	3605.8
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	16443.2	0.0	16443.2
	% Fixture	82.0	0.0	82.0
Total	Lumens	20049.0	0.0	20049.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	247.1	1.2
10°-20°	802.7	4.0
20°-30°	1402.8	7.0
30°-40°	2086.4	10.4
40°-50°	3074.1	15.3
50°-60°	4303.8	21.5
60°-70°	4813.6	24.0
70°-80°	2940.3	14.7
80°-90°	378.2	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°	20049.0	100.0
0°-180°	20049.0	100.0

Coefficient of Utilization



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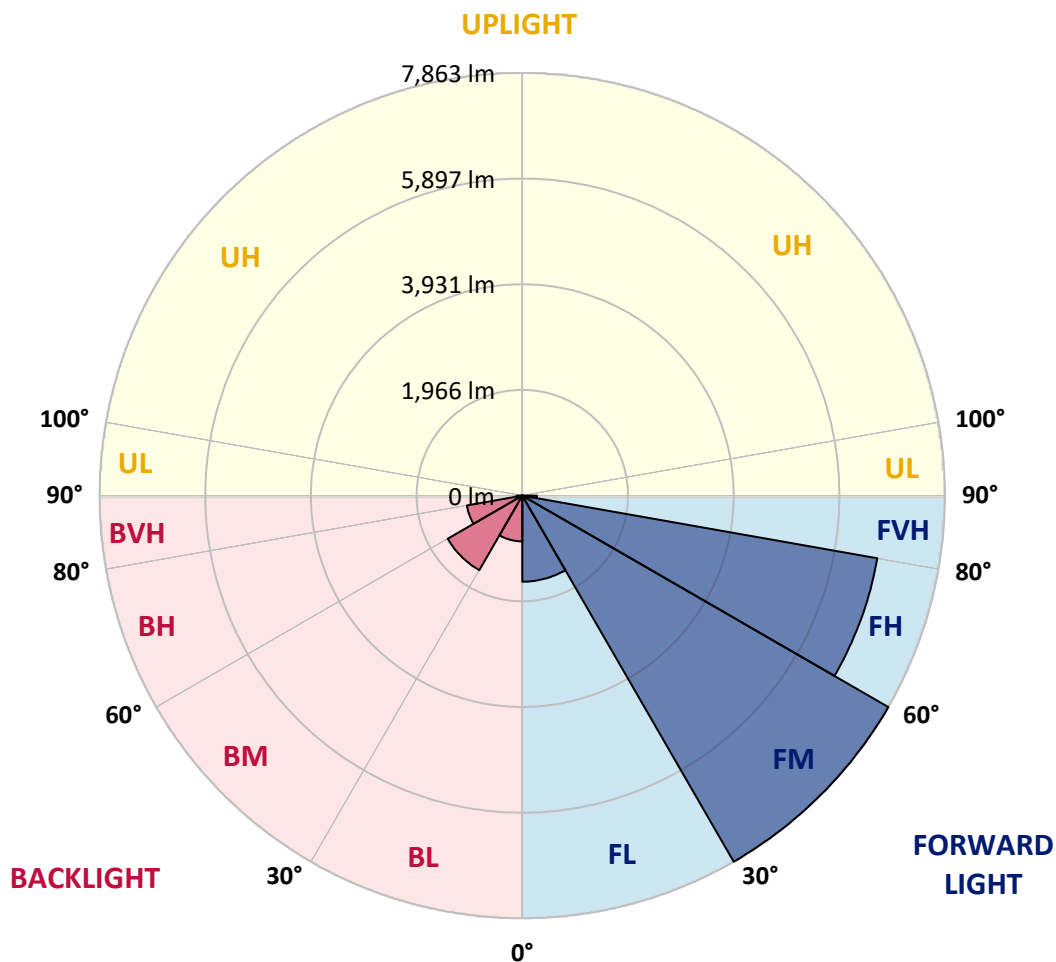
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1601.9	8.0			
FM (30°-60°)	7862.8	39.2			
FH (60°-80°)	6706.3	33.4			G3/7500
FVH (80°-90°)	272.2	1.4			G3/500
BL (0°-30°)	850.6	4.2	B2/1000		
BM (30°-60°)	1601.5	8.0	B2/2500		
BH (60°-80°)	1047.6	5.2	B3/2500		G3/2500
BVH (80°-90°)	106.1	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°	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6
2.5°	2731.7	2718.5	2719.6	2700.8	2676.6	2650.2	2612.7	2579.6	2553.2	2537.8	2492.6
5°	3027.0	3013.8	2997.3	2956.5	2938.9	2873.8	2791.2	2716.3	2659.0	2627.0	2536.7
7.5°	3266.1	3262.8	3258.4	3235.3	3190.1	3099.7	3029.2	2899.2	2814.3	2753.7	2599.5
10°	3413.8	3419.3	3422.6	3427.0	3408.3	3360.9	3263.9	3099.7	2991.8	2914.6	2681.0
12.5°	3488.7	3494.2	3513.0	3553.7	3579.1	3573.6	3494.2	3333.4	3184.6	3083.2	2768.1
15°	3535.0	3543.8	3576.9	3630.9	3715.7	3769.7	3731.1	3582.4	3419.3	3299.2	2871.6
17.5°	3585.7	3595.6	3632.0	3709.1	3820.4	3937.2	3979.1	3851.3	3673.8	3530.6	2987.3
20°	3614.3	3627.6	3679.4	3780.7	3910.8	4080.5	4219.3	4152.1	3958.1	3799.5	3120.7
22.5°	3660.6	3671.6	3715.7	3823.7	3979.1	4191.8	4459.5	4445.2	4274.4	4069.4	3267.2
25°	3786.2	3803.9	3825.9	3890.9	4040.8	4305.3	4659.0	4758.2	4580.7	4351.5	3401.7
27.5°	4023.2	4037.5	4036.4	4045.2	4130.0	4403.3	4832.0	5067.8	4884.9	4636.9	3531.7
30°	4293.1	4298.6	4303.1	4283.2	4302.0	4503.6	4990.7	5374.1	5191.2	4930.1	3645.2
32.5°	4621.5	4632.5	4595.1	4544.4	4528.9	4652.4	5121.8	5680.5	5553.7	5227.6	3757.6
35°	5009.4	5038.0	4962.0	4872.8	4809.9	4866.1	5298.1	5993.4	5925.1	5607.7	3906.4
37.5°	5452.4	5487.6	5417.1	5241.9	5152.6	5168.1	5528.4	6380.2	6394.5	6040.8	4127.8
40°	5814.9	5861.2	5863.4	5615.5	5479.9	5497.6	5820.4	6796.7	6960.9	6576.3	4389.0
42.5°	6054.0	6099.2	6146.6	6001.1	5859.0	5959.3	6160.9	7248.5	7597.8	7226.5	4753.7
45°	6316.3	6357.1	6383.5	6317.4	6238.1	6498.1	6571.9	7729.0	8276.6	7952.7	5152.6
47.5°	6620.4	6665.6	6690.9	6628.1	6598.4	6970.8	7014.9	8177.5	9001.7	8657.9	5593.4
50°	7025.9	7060.1	7046.9	7007.2	7000.6	7333.4	7440.3	8597.3	9600.1	9417.1	6050.7
52.5°	7530.6	7571.4	7585.7	7529.5	7504.2	7592.3	7783.0	8979.7	10144.4	10069.5	6538.9
55°	7835.9	7900.9	8119.1	8207.2	8267.8	7927.3	8152.1	9401.7	10632.6	10757.1	7063.4
57.5°	7444.7	7528.4	8016.6	8457.3	9027.0	8764.8	8675.5	9842.5	11120.7	11423.8	7691.5
60°	6490.4	6509.1	7138.3	7950.5	9096.5	9841.4	9767.5	10543.3	11649.6	12095.9	8519.1
62.5°	4502.5	4542.2	5286.0	6581.9	8239.2	10229.3	11625.4	11753.2	12407.8	13102.0	9732.3
65°	2321.8	2270.0	2947.7	4136.7	6211.6	9308.0	13130.6	13978.0	14051.9	14675.6	11440.3
67.5°	1429.2	1452.3	1769.7	2415.4	3672.7	6764.8	12973.1	16696.5	16307.5	16607.3	13026.0
70°	1073.3	1101.9	1320.1	1652.9	2239.1	3867.8	10433.1	17355.5	17898.7	17821.6	13508.6
71°	933.3	963.1	1190.1	1504.1	1881.0	2985.1	8790.1	16665.7	17953.8	17940.6	13326.8
72.5°	795.6	814.3	991.7	1273.8	1585.7	2092.6	6603.9	14946.6	17188.0	17627.6	12677.8
75°	624.8	639.1	718.5	971.9	1248.5	1284.9	3543.8	11205.6	14116.9	14954.4	10554.3
77.5°	509.1	519.0	559.8	721.8	963.1	910.2	1859.0	7293.7	8844.1	9687.1	6217.1
80°	404.4	415.4	439.7	489.3	721.8	649.0	887.1	3695.9	4272.2	4263.4	2481.6
82.5°	314.1	317.4	346.0	359.2	493.7	460.6	480.4	1564.7	1733.3	1790.6	895.9
85°	198.3	208.3	306.3	275.5	295.3	270.0	236.9	621.5	765.8	754.8	358.1
87.5°	60.6	63.9	103.6	116.8	131.1	117.9	87.1	182.9	223.7	242.4	89.3
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°	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6	2460.6
2.5°	2474.9	2462.8	2419.8	2384.6	2351.5	2315.2	2284.3	2275.5	2267.8	2264.5	2263.4
5°	2498.1	2461.7	2376.9	2307.5	2252.4	2201.7	2169.7	2155.4	2141.1	2141.1	2145.5
7.5°	2531.1	2465.0	2333.9	2230.3	2160.9	2113.5	2090.4	2088.2	2091.5	2094.8	2095.9
10°	2567.5	2462.8	2271.1	2142.2	2080.5	2058.4	2059.5	2078.2	2095.9	2109.1	2111.3
12.5°	2602.8	2449.6	2197.3	2059.5	2019.8	2024.3	2055.1	2097.0	2131.1	2149.9	2151.0
15°	2642.4	2428.7	2108.0	1981.3	1968.1	2002.2	2059.5	2123.4	2175.2	2206.1	2209.4
17.5°	2675.5	2393.4	2014.3	1905.2	1921.8	1984.6	2063.9	2146.6	2209.4	2247.9	2254.6
20°	2713.0	2348.2	1917.4	1832.5	1879.9	1964.7	2055.1	2144.4	2209.4	2246.8	2255.7
22.5°	2742.7	2284.3	1824.8	1773.0	1842.4	1940.5	2025.4	2097.0	2149.9	2169.7	2182.9
25°	2754.8	2203.9	1737.8	1724.5	1812.7	1900.8	1958.1	1998.9	2015.4	2013.2	2018.7
27.5°	2748.2	2111.3	1662.8	1686.0	1775.2	1839.1	1867.8	1864.5	1834.7	1807.2	1820.4
30°	2720.7	2001.1	1600.0	1646.3	1726.7	1762.0	1757.6	1714.6	1658.4	1606.6	1609.9
32.5°	2671.1	1882.1	1541.6	1601.1	1658.4	1673.8	1644.1	1587.9	1507.4	1440.2	1430.3
35°	2629.2	1768.6	1489.8	1549.3	1590.1	1582.4	1553.7	1481.0	1408.3	1348.8	1338.9
37.5°	2622.6	1671.6	1440.2	1490.9	1514.1	1503.0	1467.8	1406.1	1379.6	1334.4	1328.9
40°	2657.9	1603.3	1389.5	1429.2	1440.2	1431.4	1392.8	1357.6	1381.8	1370.8	1370.8
42.5°	2753.7	1567.0	1344.4	1367.5	1376.3	1382.9	1355.4	1325.6	1355.4	1304.7	1288.2
45°	2905.8	1568.1	1303.6	1306.9	1333.3	1356.5	1337.7	1293.7	1278.2	1176.9	1157.0
47.5°	3129.5	1605.5	1270.5	1249.6	1297.0	1335.5	1309.1	1245.2	1176.9	1109.6	1097.5
50°	3390.7	1672.7	1240.8	1190.1	1248.5	1309.1	1289.3	1214.3	1143.8	1103.0	1095.3
52.5°	3680.5	1757.6	1204.4	1124.0	1189.0	1297.0	1293.7	1209.9	1113.0	1085.4	1078.8
55°	4038.6	1841.3	1159.2	1046.8	1136.1	1287.1	1281.5	1173.6	1106.3	1086.5	1084.3
57.5°	4455.1	1962.5	1094.2	968.6	1075.5	1246.3	1234.2	1151.5	1084.3	1070.0	1068.9
60°	5126.2	2151.0	1001.7	897.0	1013.8	1174.7	1190.1	1114.1	1049.0	1045.7	1044.6
62.5°	6008.8	2415.4	905.8	823.1	942.2	1082.1	1126.2	1063.4	1011.6	1028.1	1030.3
65°	7227.6	2638.0	806.6	760.3	862.8	992.8	1065.6	1016.0	969.7	1001.7	1001.7
67.5°	8022.1	2642.4	716.3	695.3	782.4	917.9	1001.7	959.8	915.7	969.7	971.9
70°	7856.8	2315.2	641.3	627.0	704.1	837.5	931.1	898.1	847.4	895.9	878.2
71°	7590.1	2133.3	611.6	600.6	673.3	798.9	898.1	870.5	819.8	851.8	841.9
72.5°	7164.8	1852.4	563.1	565.3	627.0	750.4	851.8	823.1	772.5	790.1	786.8
75°	6056.2	1617.6	481.5	491.5	538.8	667.8	759.2	737.2	685.4	685.4	682.1
77.5°	3786.2	1130.6	400.0	405.5	457.3	571.9	652.3	633.6	584.0	567.5	563.1
80°	1412.7	584.0	312.9	319.6	351.5	450.7	539.9	522.3	471.6	452.9	435.3
82.5°	534.4	293.1	230.3	224.8	259.0	343.8	423.1	402.2	362.5	317.4	304.1
85°	201.7	145.5	141.0	136.6	152.1	203.9	262.3	257.9	216.0	184.0	180.7
87.5°	52.9	47.4	55.1	40.8	43.0	38.6	39.7	16.5	7.7	3.3	2.2
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)