

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: P451513

Luminaire Tested: **GALN-SA2B-827-U-T2**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451513  
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-SA2B-827-U-T2  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8460 lumens  
Efficiency: N/A  
Efficacy: 103.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2

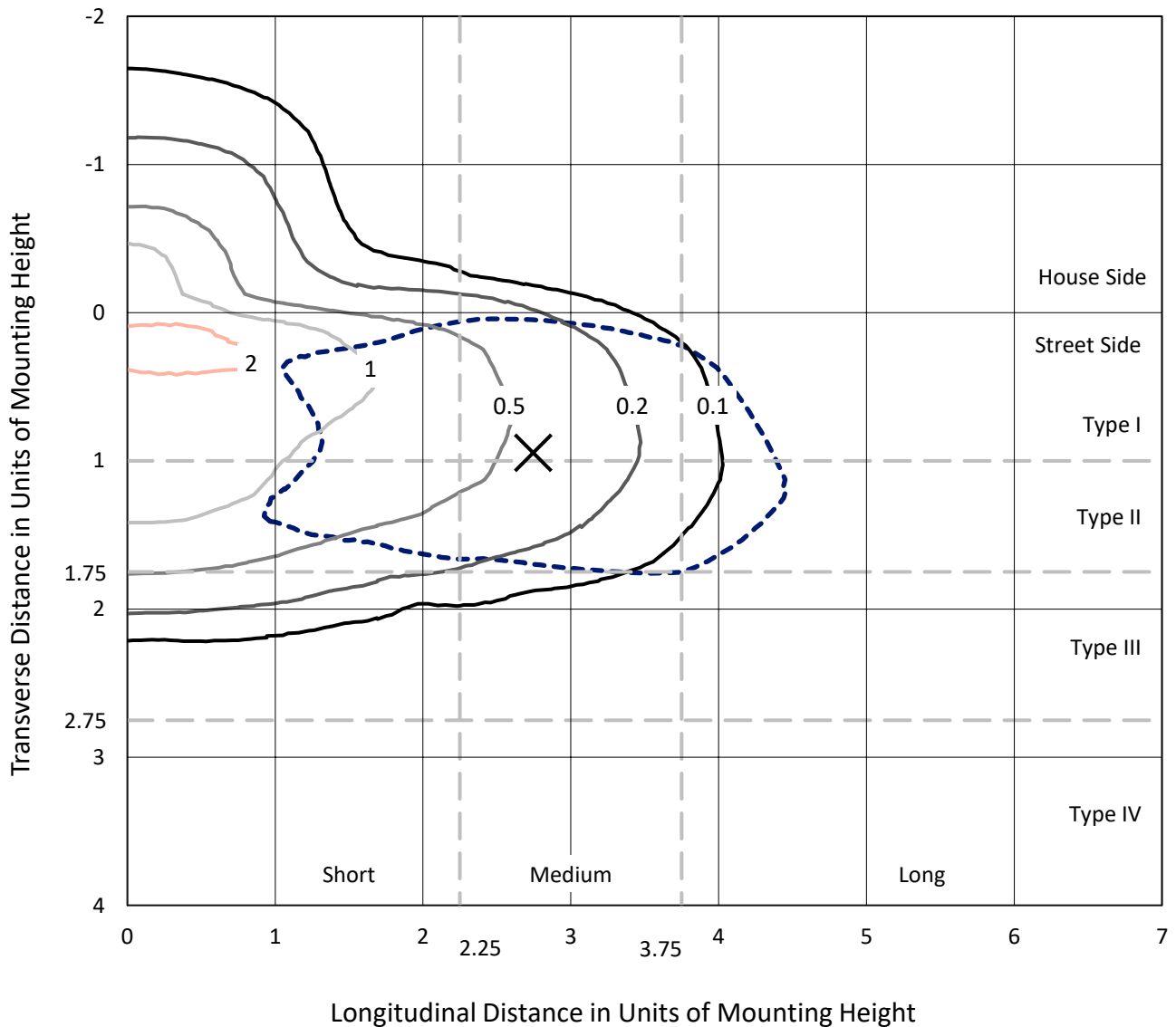
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

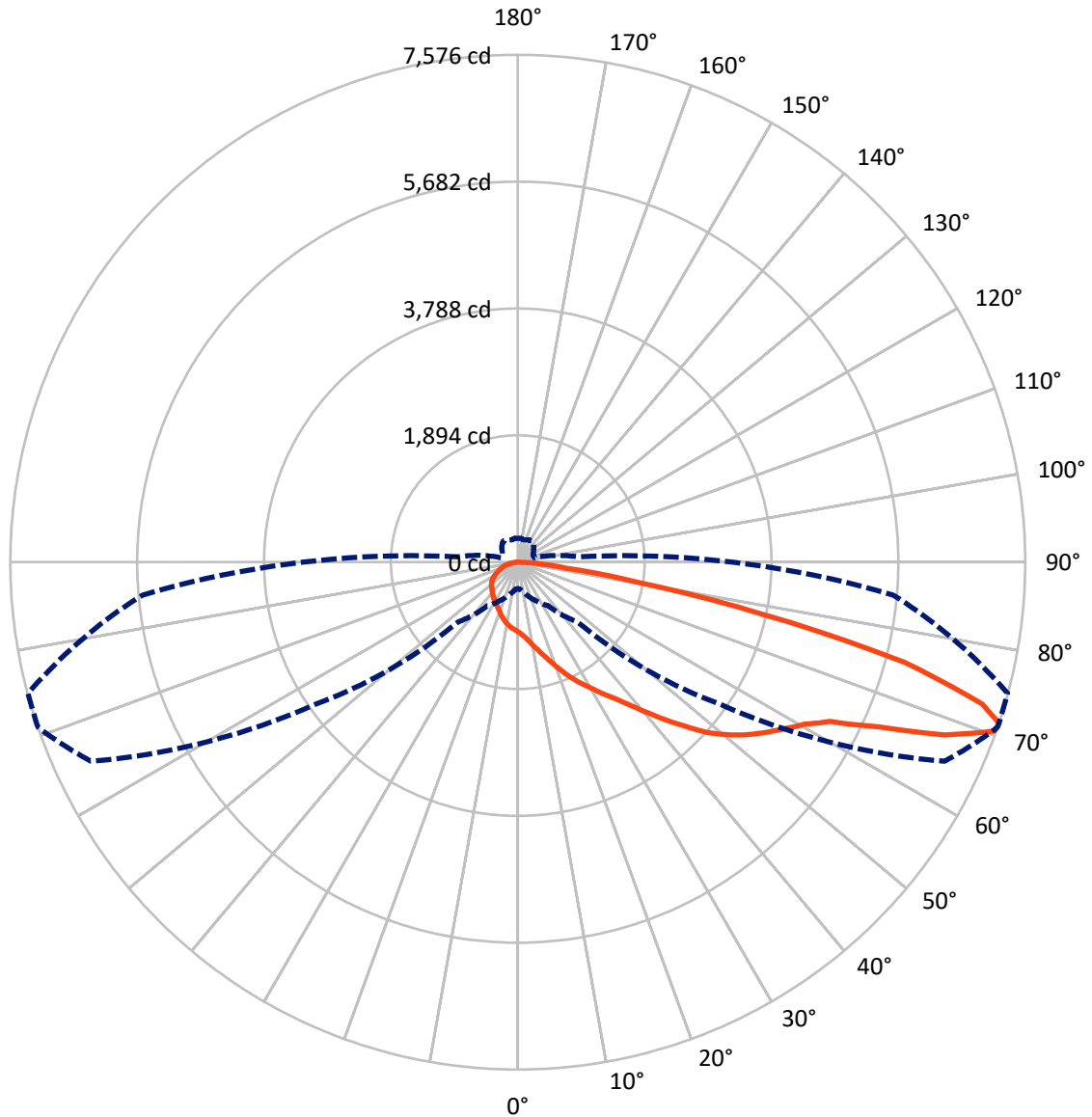
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 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
<b>House Side</b>	Lumens	1521.5	0.0	1521.5
	% Fixture	18.0	0.0	18.0
<b>Street Side</b>	Lumens	6938.5	0.0	6938.5
	% Fixture	82.0	0.0	82.0
<b>Total</b>	Lumens	8460.0	0.0	8460.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	104.3	1.2
10°-20°	338.7	4.0
20°-30°	591.9	7.0
30°-40°	880.4	10.4
40°-50°	1297.2	15.3
50°-60°	1816.0	21.5
60°-70°	2031.2	24.0
70°-80°	1240.7	14.7
80°-90°	159.6	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°	8460.0	100.0
0°-180°	8460.0	100.0

**Coefficient of Utilization**



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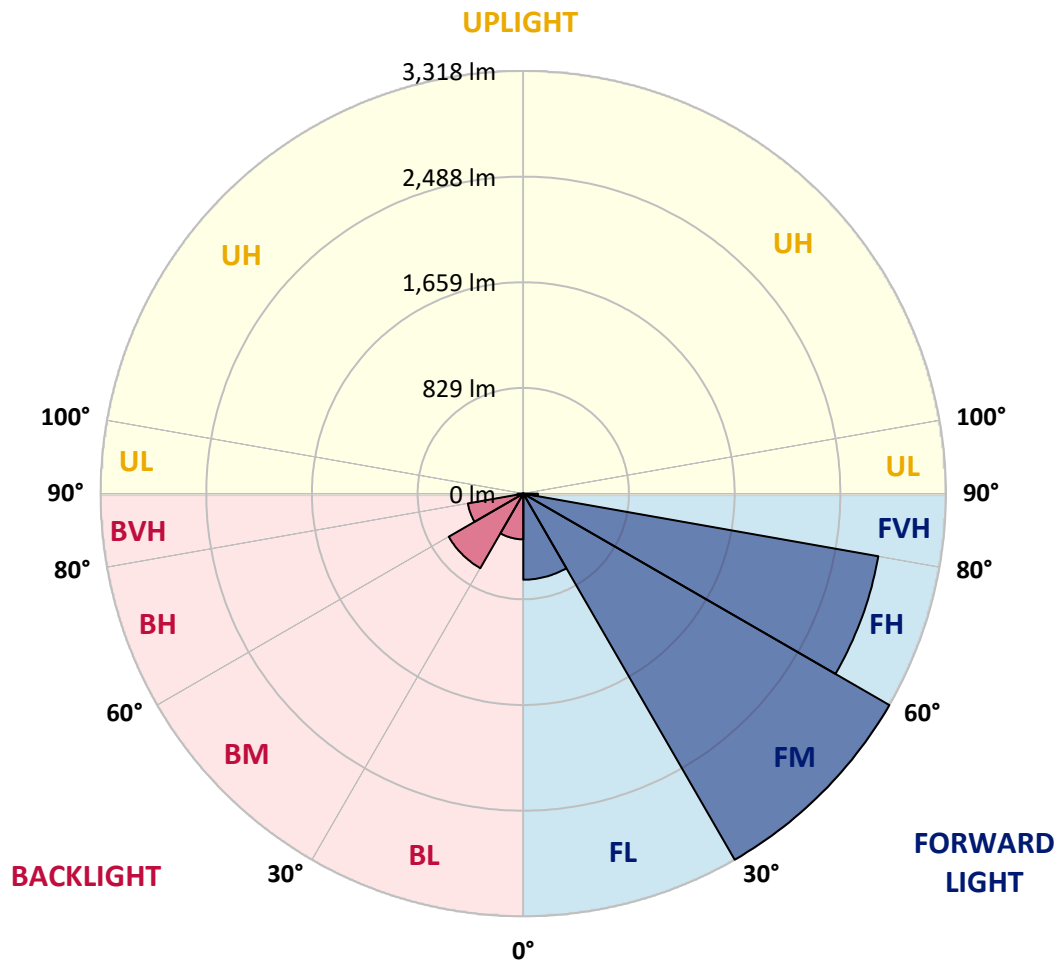
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	676.0	8.0			
FM (30°-60°)	3317.8	39.2			
FH (60°-80°)	2829.8	33.4			G2/5000
FVH (80°-90°)	114.8	1.4			G2/225
BL (0°-30°)	358.9	4.2	B1/500		
BM (30°-60°)	675.8	8.0	B1/1000		
BH (60°-80°)	442.1	5.2	B1/500		G1/500
BVH (80°-90°)	44.8	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3
2.5°	1152.7	1147.1	1147.6	1139.7	1129.4	1118.3	1102.5	1088.5	1077.4	1070.8	1051.8
5°	1277.3	1271.7	1264.7	1247.5	1240.1	1212.7	1177.8	1146.2	1122.0	1108.5	1070.4
7.5°	1378.2	1376.8	1374.9	1365.2	1346.1	1308.0	1278.2	1223.4	1187.6	1162.0	1096.9
10°	1440.5	1442.8	1444.2	1446.1	1438.2	1418.2	1377.3	1308.0	1262.4	1229.9	1131.3
12.5°	1472.1	1474.4	1482.4	1499.6	1510.3	1507.9	1474.4	1406.6	1343.8	1301.0	1168.0
15°	1491.7	1495.4	1509.3	1532.1	1567.9	1590.7	1574.4	1511.6	1442.8	1392.1	1211.7
17.5°	1513.0	1517.2	1532.6	1565.1	1612.1	1661.4	1679.0	1625.1	1550.2	1489.8	1260.6
20°	1525.1	1530.7	1552.6	1595.3	1650.2	1721.8	1780.4	1752.0	1670.2	1603.2	1316.8
22.5°	1544.7	1549.3	1567.9	1613.5	1679.0	1768.8	1881.8	1875.7	1803.7	1717.2	1378.7
25°	1597.7	1605.1	1614.4	1641.8	1705.1	1816.7	1965.9	2007.8	1932.9	1836.2	1435.4
27.5°	1697.6	1703.7	1703.2	1706.9	1742.7	1858.1	2038.9	2138.4	2061.3	1956.6	1490.3
30°	1811.6	1813.9	1815.7	1807.4	1815.3	1900.4	2105.9	2267.7	2190.5	2080.3	1538.2
32.5°	1950.1	1954.8	1939.0	1917.6	1911.1	1963.1	2161.2	2397.0	2343.5	2205.9	1585.6
35°	2113.8	2125.9	2093.8	2056.1	2029.6	2053.3	2235.6	2529.0	2500.2	2366.3	1648.4
37.5°	2300.7	2315.6	2285.8	2211.9	2174.2	2180.8	2332.8	2692.2	2698.3	2549.0	1741.8
40°	2453.7	2473.2	2474.2	2369.5	2312.3	2319.8	2456.0	2868.0	2937.3	2775.0	1852.0
42.5°	2554.6	2573.7	2593.7	2532.3	2472.3	2514.6	2599.7	3058.6	3206.0	3049.3	2005.9
45°	2665.3	2682.5	2693.6	2665.7	2632.2	2742.0	2773.1	3261.4	3492.5	3355.8	2174.2
47.5°	2793.6	2812.7	2823.4	2796.8	2784.3	2941.5	2960.1	3450.6	3798.4	3653.3	2360.2
50°	2964.7	2979.1	2973.5	2956.8	2954.0	3094.4	3139.5	3627.8	4050.9	3973.7	2553.2
52.5°	3177.7	3194.9	3200.9	3177.2	3166.5	3203.7	3284.1	3789.1	4280.6	4249.0	2759.2
55°	3306.5	3333.9	3426.0	3463.2	3488.7	3345.1	3439.9	3967.2	4486.6	4539.1	2980.5
57.5°	3141.4	3176.7	3382.7	3568.7	3809.1	3698.4	3660.8	4153.2	4692.6	4820.4	3245.6
60°	2738.7	2746.6	3012.1	3354.8	3838.4	4152.7	4121.6	4448.9	4915.8	5104.1	3594.8
62.5°	1899.9	1916.6	2230.5	2777.3	3476.6	4316.4	4905.5	4959.5	5235.7	5528.6	4106.7
65°	979.7	957.9	1243.8	1745.5	2621.1	3927.7	5540.7	5898.3	5929.4	6192.6	4827.4
67.5°	603.1	612.8	746.8	1019.2	1549.8	2854.5	5474.2	7045.4	6881.2	7007.7	5496.5
70°	452.9	465.0	557.0	697.5	944.8	1632.1	4402.4	7323.4	7552.7	7520.1	5700.2
71°	393.8	406.4	502.2	634.7	793.7	1259.6	3709.1	7032.3	7575.9	7570.3	5623.5
72.5°	335.7	343.6	418.5	537.5	669.1	883.0	2786.6	6307.0	7252.7	7438.3	5349.6
75°	263.6	269.7	303.2	410.1	526.8	542.2	1495.4	4728.4	5956.8	6310.2	4453.6
77.5°	214.8	219.0	236.2	304.6	406.4	384.1	784.4	3077.7	3731.9	4087.6	2623.4
80°	170.6	175.3	185.5	206.5	304.6	273.9	374.3	1559.5	1802.7	1799.0	1047.1
82.5°	132.5	133.9	146.0	151.6	208.3	194.4	202.7	660.3	731.4	755.6	378.0
85°	83.7	87.9	129.3	116.2	124.6	113.9	100.0	262.2	323.2	318.5	151.1
87.5°	25.6	27.0	43.7	49.3	55.3	49.8	36.7	77.2	94.4	102.3	37.7
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°	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3	1038.3
2.5°	1044.3	1039.2	1021.1	1006.2	992.3	976.9	963.9	960.2	956.9	955.5	955.1
5°	1054.1	1038.8	1003.0	973.7	950.4	929.0	915.5	909.5	903.5	903.5	905.3
7.5°	1068.1	1040.2	984.8	941.1	911.8	891.8	882.1	881.1	882.5	883.9	884.4
10°	1083.4	1039.2	958.3	903.9	877.9	868.6	869.0	877.0	884.4	890.0	890.9
12.5°	1098.3	1033.6	927.2	869.0	852.3	854.2	867.2	884.9	899.3	907.2	907.6
15°	1115.0	1024.8	889.5	836.0	830.5	844.9	869.0	896.0	917.9	930.9	932.3
17.5°	1129.0	1009.9	850.0	803.9	810.9	837.4	870.9	905.8	932.3	948.6	951.3
20°	1144.8	990.9	809.1	773.3	793.3	829.1	867.2	904.8	932.3	948.1	951.8
22.5°	1157.3	963.9	770.0	748.2	777.4	818.8	854.6	884.9	907.2	915.5	921.1
25°	1162.4	930.0	733.3	727.7	764.9	802.1	826.3	843.5	850.4	849.5	851.8
27.5°	1159.7	890.9	701.7	711.4	749.1	776.0	788.1	786.7	774.2	762.6	768.1
30°	1148.0	844.4	675.1	694.7	728.6	743.5	741.6	723.5	699.8	677.9	679.3
32.5°	1127.1	794.2	650.5	675.6	699.8	706.3	693.7	670.0	636.1	607.7	603.5
35°	1109.4	746.3	628.7	653.8	671.0	667.7	655.6	624.9	594.2	569.1	564.9
37.5°	1106.7	705.4	607.7	629.1	638.9	634.2	619.4	593.3	582.2	563.1	560.8
40°	1121.5	676.5	586.3	603.1	607.7	604.0	587.7	572.9	583.1	578.4	578.4
42.5°	1162.0	661.2	567.3	577.0	580.8	583.5	571.9	559.4	571.9	550.5	543.6
45°	1226.1	661.7	550.1	551.5	562.6	572.4	564.5	545.9	539.4	496.6	488.2
47.5°	1320.5	677.5	536.1	527.3	547.3	563.6	552.4	525.4	496.6	468.2	463.1
50°	1430.7	705.8	523.6	502.2	526.8	552.4	544.0	512.4	482.6	465.4	462.2
52.5°	1553.0	741.6	508.2	474.3	501.7	547.3	545.9	510.5	469.6	458.0	455.2
55°	1704.1	777.0	489.2	441.7	479.4	543.1	540.8	495.2	466.8	458.5	457.5
57.5°	1879.9	828.1	461.7	408.7	453.8	525.9	520.8	485.9	457.5	451.5	451.0
60°	2163.1	907.6	422.7	378.5	427.8	495.7	502.2	470.1	442.7	441.3	440.8
62.5°	2535.5	1019.2	382.2	347.3	397.6	456.6	475.2	448.7	426.9	433.8	434.8
65°	3049.8	1113.2	340.4	320.8	364.1	418.9	449.6	428.7	409.2	422.7	422.7
67.5°	3385.0	1115.0	302.2	293.4	330.1	387.3	422.7	405.0	386.4	409.2	410.1
70°	3315.3	976.9	270.6	264.6	297.1	353.4	392.9	379.0	357.6	378.0	370.6
71°	3202.8	900.2	258.1	253.4	284.1	337.1	379.0	367.3	345.9	359.4	355.2
72.5°	3023.3	781.6	237.6	238.5	264.6	316.7	359.4	347.3	326.0	333.4	332.0
75°	2555.5	682.6	203.2	207.4	227.4	281.8	320.4	311.1	289.2	289.2	287.8
77.5°	1597.7	477.1	168.8	171.1	193.0	241.3	275.3	267.4	246.4	239.5	237.6
80°	596.1	246.4	132.1	134.8	148.3	190.2	227.8	220.4	199.0	191.1	183.7
82.5°	225.5	123.7	97.2	94.9	109.3	145.1	178.6	169.7	153.0	133.9	128.3
85°	85.1	61.4	59.5	57.7	64.2	86.0	110.7	108.8	91.1	77.7	76.3
87.5°	22.3	20.0	23.2	17.2	18.1	16.3	16.7	7.0	3.3	1.4	0.9
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)