

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: P451517

Luminaire Tested: **GALN-SA2B-827-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451517
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
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-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8342 lumens
Efficiency: N/A
Efficacy: 101.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G2

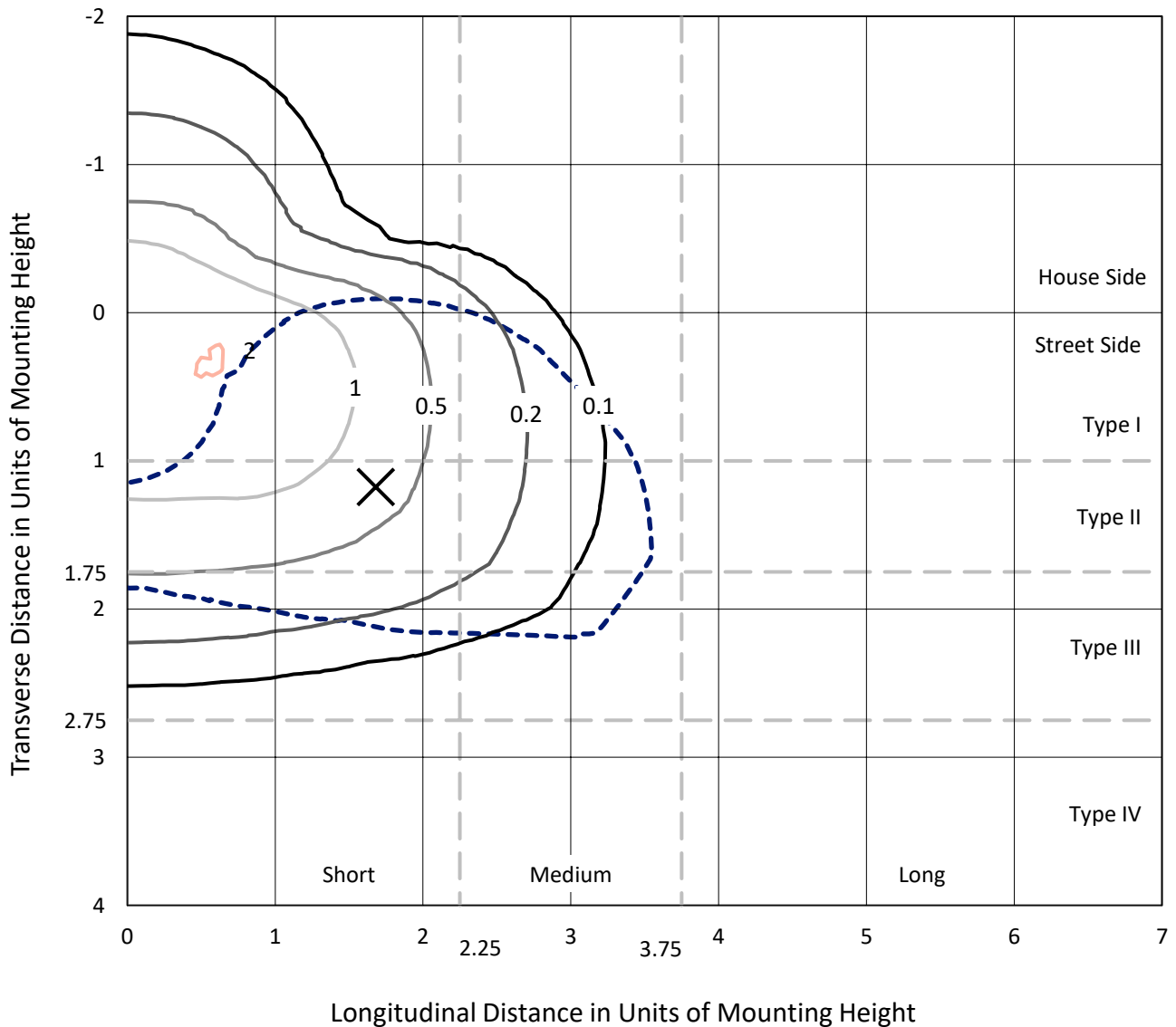
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

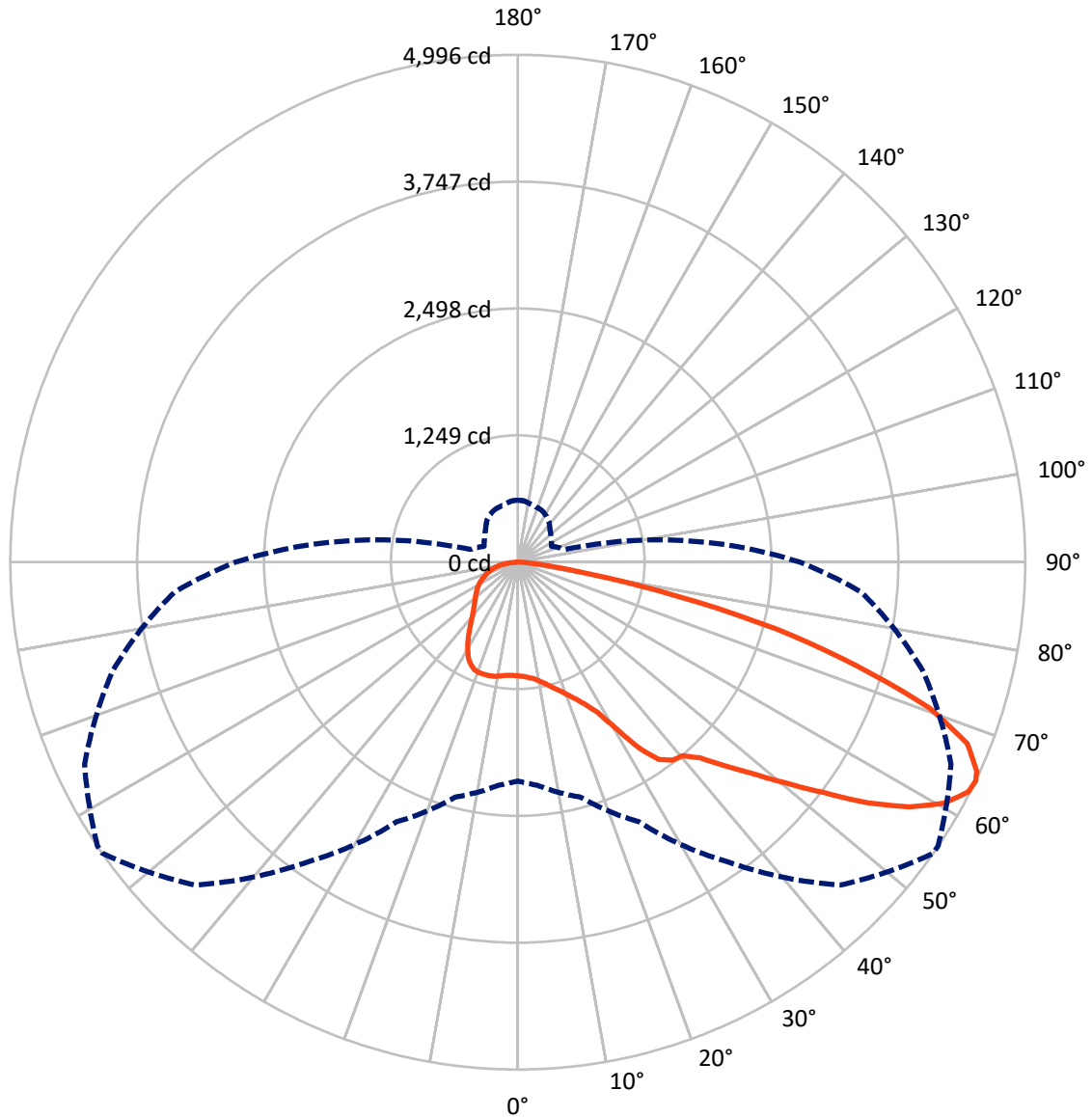
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2026.4	0.0	2026.4
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	6315.6	0.0	6315.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	8342.0	0.0	8342.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	108.9	1.3
10°-20°	343.5	4.1
20°-30°	611.6	7.3
30°-40°	941.0	11.3
40°-50°	1333.9	16.0
50°-60°	1930.8	23.1
60°-70°	1998.1	24.0
70°-80°	935.7	11.2
80°-90°	138.5	1.7
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°	8342.0	100.0
0°-180°	8342.0	100.0

Coefficient of Utilization



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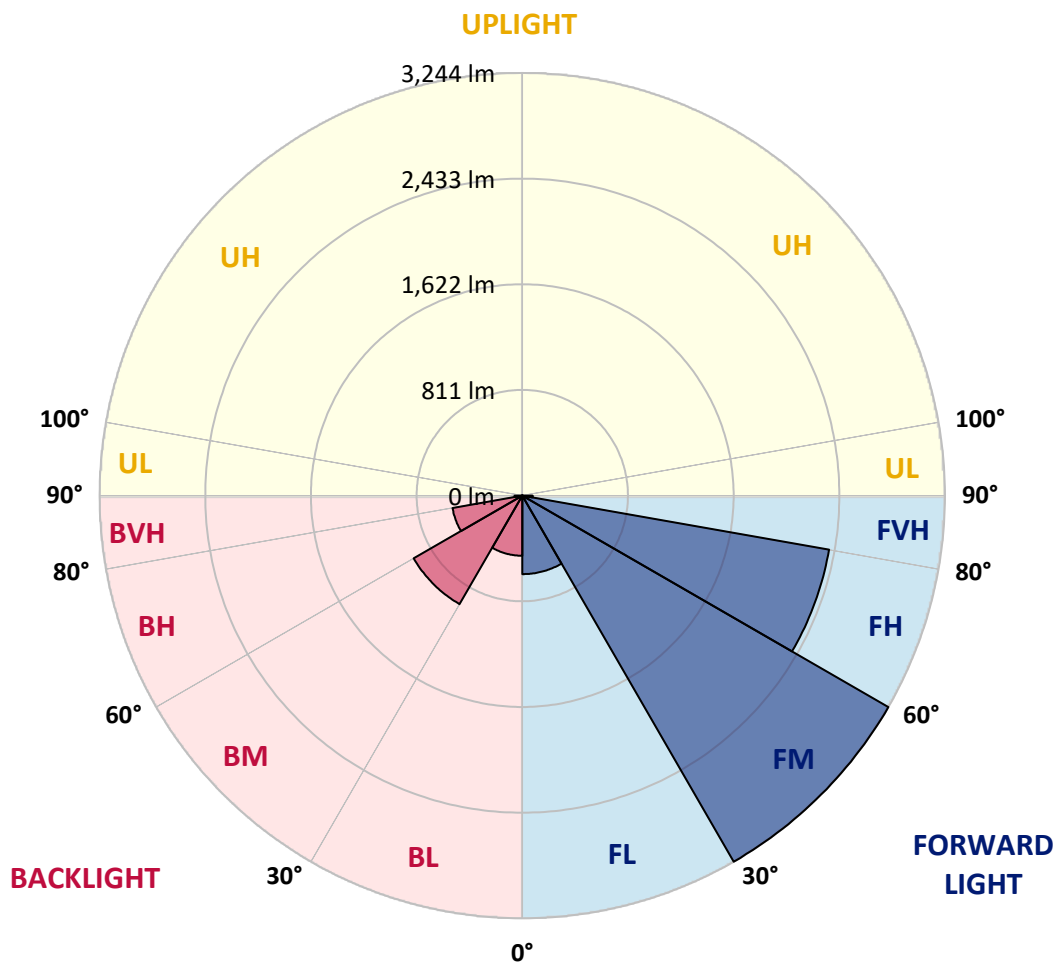
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	602.4	7.2			
FM	(30°-60°)	3243.6	38.9			
FH	(60°-80°)	2390.2	28.7			G2/5000
FVH	(80°-90°)	79.3	1.0			G1/100
BL	(0°-30°)	461.5	5.5	B1/500		
BM	(30°-60°)	962.0	11.5	B1/1000		
BH	(60°-80°)	543.7	6.5	B2/1000		G2/1000
BVH	(80°-90°)	59.2	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2
2.5°	1131.8	1131.3	1132.7	1131.3	1132.3	1129.0	1127.6	1128.5	1127.1	1124.8	1120.6
5°	1145.7	1145.3	1145.7	1143.9	1144.8	1143.0	1139.7	1140.6	1138.3	1133.2	1127.1
7.5°	1169.5	1167.6	1167.6	1167.1	1165.3	1162.5	1160.2	1159.2	1156.9	1150.4	1141.1
10°	1200.2	1200.2	1200.6	1196.9	1199.2	1194.1	1191.8	1191.3	1183.4	1175.0	1162.0
12.5°	1240.6	1242.9	1241.5	1239.7	1238.7	1236.9	1229.0	1230.8	1222.0	1207.6	1191.8
15°	1290.8	1294.5	1292.2	1291.3	1289.0	1282.0	1278.7	1277.3	1265.7	1244.8	1223.9
17.5°	1357.3	1352.7	1350.8	1348.5	1338.7	1333.6	1328.0	1327.1	1316.9	1292.2	1259.7
20°	1415.4	1422.0	1418.2	1415.9	1406.1	1396.4	1392.2	1390.8	1382.0	1355.0	1302.9
22.5°	1484.7	1486.1	1487.5	1481.9	1477.3	1469.9	1462.4	1460.1	1456.8	1428.9	1365.2
25°	1558.7	1564.2	1559.6	1554.0	1548.4	1548.0	1554.9	1554.0	1552.6	1525.7	1448.0
27.5°	1679.1	1684.2	1685.6	1679.6	1658.2	1660.0	1675.8	1681.0	1702.3	1657.7	1554.5
30°	1747.0	1752.1	1763.7	1786.5	1820.5	1850.2	1888.3	1900.0	1920.4	1836.3	1681.0
32.5°	1788.8	1790.7	1811.6	1853.9	1955.8	2066.9	2170.6	2174.8	2187.8	2069.7	1796.7
35°	1854.9	1856.3	1873.0	1919.5	2039.0	2224.1	2384.5	2389.6	2378.9	2142.2	1850.7
37.5°	1936.2	1940.0	1950.7	1989.3	2132.0	2355.7	2473.3	2469.6	2374.7	2199.9	1946.0
40°	2054.8	2054.8	2042.3	2094.3	2230.1	2431.0	2504.5	2498.0	2472.8	2366.8	2091.1
42.5°	2159.4	2157.6	2187.3	2222.7	2352.9	2547.2	2635.1	2645.8	2687.2	2576.5	2256.2
45°	2295.7	2304.1	2320.8	2385.0	2561.7	2745.8	2859.3	2869.5	2928.1	2823.5	2449.1
47.5°	2433.3	2436.1	2488.7	2574.2	2820.2	3015.0	3108.0	3124.8	3178.2	3112.2	2657.0
50°	2531.0	2557.5	2641.6	2776.5	3086.6	3343.3	3415.9	3435.9	3530.2	3426.6	2899.2
52.5°	2634.2	2660.2	2763.0	2968.5	3392.6	3679.0	3768.3	3781.8	3879.9	3744.6	3147.1
55°	2722.5	2746.7	2863.4	3138.7	3636.3	4021.7	4183.6	4167.8	4214.7	3989.7	3338.2
57.5°	2737.0	2756.5	2903.4	3247.5	3819.5	4315.6	4547.7	4557.0	4502.6	4172.9	3495.8
60°	2625.4	2665.4	2834.1	3235.9	3901.8	4520.2	4819.2	4825.7	4671.3	4266.8	3558.6
62.5°	2427.7	2423.6	2627.7	3049.0	3786.5	4566.7	4979.2	4972.2	4737.4	4221.7	3497.7
64°	2154.8	2205.0	2395.7	2819.3	3600.5	4495.1	4995.9	4992.2	4705.8	4127.8	3394.0
65°	1988.3	1985.5	2173.9	2631.4	3415.4	4387.2	4966.2	4961.0	4639.7	4043.6	3313.6
67.5°	1435.4	1442.0	1627.9	2030.6	2776.5	3965.5	4772.3	4753.2	4379.3	3764.6	3007.6
70°	869.5	873.3	1019.3	1347.1	1993.0	3205.7	4301.7	4302.6	3980.8	3348.0	2559.8
72.5°	458.0	467.8	526.4	764.9	1210.4	2249.2	3489.8	3572.6	3417.7	2857.4	2022.3
75°	254.8	256.2	297.6	377.1	617.5	1258.7	2623.0	2646.8	2705.8	2299.9	1495.4
77.5°	194.4	197.2	210.2	243.7	336.2	583.6	1587.5	1706.5	1906.9	1621.4	853.3
80°	157.6	160.4	171.6	191.6	223.7	276.7	737.5	801.7	1020.7	719.8	332.9
82.5°	122.8	120.9	135.3	148.3	162.7	163.7	302.7	334.8	415.7	309.7	144.1
85°	91.1	91.1	102.8	100.0	105.1	95.8	133.5	147.4	166.5	131.6	67.0
87.5°	36.3	40.0	67.4	60.4	47.0	37.7	49.3	52.1	57.7	51.6	27.9
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°	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2	1119.2
2.5°	1121.1	1122.5	1119.2	1116.9	1116.0	1114.6	1113.2	1113.7	1115.5	1117.4	1116.9
5°	1126.7	1127.1	1121.6	1118.8	1116.9	1115.1	1115.1	1116.5	1120.2	1123.0	1123.0
7.5°	1140.6	1140.6	1132.7	1127.6	1124.8	1121.6	1120.6	1121.1	1123.9	1127.6	1128.1
10°	1162.5	1160.6	1150.4	1142.5	1137.4	1129.5	1122.5	1118.8	1120.2	1122.5	1122.5
12.5°	1189.0	1183.9	1170.9	1160.2	1147.6	1132.7	1118.3	1110.9	1110.4	1112.7	1111.8
15°	1217.4	1211.8	1193.6	1174.1	1152.3	1130.4	1113.2	1102.5	1094.1	1091.8	1096.9
17.5°	1250.4	1238.7	1213.6	1186.7	1154.1	1125.8	1098.8	1076.9	1062.1	1057.9	1059.3
20°	1290.4	1275.0	1241.1	1198.8	1152.7	1109.0	1067.2	1037.9	1013.7	1006.3	1007.2
22.5°	1345.7	1319.2	1269.4	1204.8	1141.1	1077.4	1019.3	981.1	951.8	940.2	947.2
25°	1408.5	1379.6	1296.4	1203.4	1110.9	1026.7	962.5	912.8	886.3	869.1	872.8
27.5°	1495.0	1443.8	1325.2	1190.9	1067.6	964.9	890.5	843.5	819.3	810.5	814.7
30°	1605.6	1527.0	1356.4	1156.9	999.3	886.7	817.9	787.2	772.8	761.7	765.4
32.5°	1685.6	1585.6	1363.4	1099.7	925.3	815.6	768.6	745.9	730.0	719.3	721.7
35°	1742.8	1635.4	1360.1	1029.5	848.2	757.0	729.6	711.0	685.4	662.2	658.0
37.5°	1819.5	1697.7	1336.4	952.8	771.9	717.5	698.0	663.5	626.8	595.7	594.3
40°	1937.2	1770.7	1285.7	862.6	706.8	688.2	664.5	619.8	580.3	555.2	553.3
42.5°	2058.5	1838.1	1216.9	767.7	653.3	657.5	628.7	584.5	560.3	544.0	542.2
45°	2206.9	1911.1	1142.5	685.4	613.8	628.7	597.5	571.9	557.5	546.8	544.0
47.5°	2367.3	1986.0	1058.8	611.5	580.3	602.2	584.5	572.9	565.0	557.5	554.3
50°	2540.3	2069.7	980.2	551.9	550.1	574.7	583.1	578.9	574.3	571.9	569.2
52.5°	2730.0	2155.3	914.2	510.1	523.6	555.2	583.6	586.8	586.8	585.4	583.6
55°	2858.3	2214.8	847.2	476.2	496.6	539.4	582.6	595.2	599.8	598.0	596.1
57.5°	2953.2	2247.3	763.1	446.9	473.8	524.1	577.5	596.1	600.8	603.1	602.2
60°	2972.7	2217.1	652.9	416.2	449.2	501.7	558.9	582.2	588.2	602.6	604.0
62.5°	2884.8	2124.1	543.1	385.9	419.0	467.8	533.8	566.4	578.5	600.8	603.1
64°	2777.0	2019.9	482.2	366.9	399.4	448.7	521.3	562.2	578.0	607.7	609.6
65°	2697.9	1944.1	444.1	354.8	386.9	436.2	514.3	563.6	582.2	618.4	621.2
67.5°	2406.8	1683.3	367.3	326.4	357.1	414.8	515.7	575.2	581.2	622.6	622.2
70°	1991.6	1340.1	307.8	300.4	328.3	397.6	510.1	556.6	557.1	584.5	578.0
72.5°	1491.2	990.4	266.9	273.4	296.2	356.7	481.7	531.5	523.6	527.3	520.8
75°	1024.4	655.2	229.7	244.6	262.7	315.3	441.7	482.7	470.1	465.5	460.8
77.5°	546.8	362.2	191.1	216.2	228.3	272.5	385.5	425.0	412.0	393.9	387.8
80°	221.3	170.7	153.9	179.0	186.0	219.5	320.8	345.5	335.7	304.1	293.9
82.5°	111.1	102.3	120.9	140.9	141.4	156.7	238.5	261.8	239.9	201.3	192.5
85°	58.1	60.0	83.2	99.0	87.4	84.6	143.2	158.6	145.5	126.5	113.9
87.5°	20.9	24.2	43.7	43.2	30.7	16.3	31.6	15.3	8.4	5.1	6.5
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)