

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: P451521

Luminaire Tested: **GALN-SA2B-827-U-T4FT**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451521
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-28)
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-T4FT
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8393 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

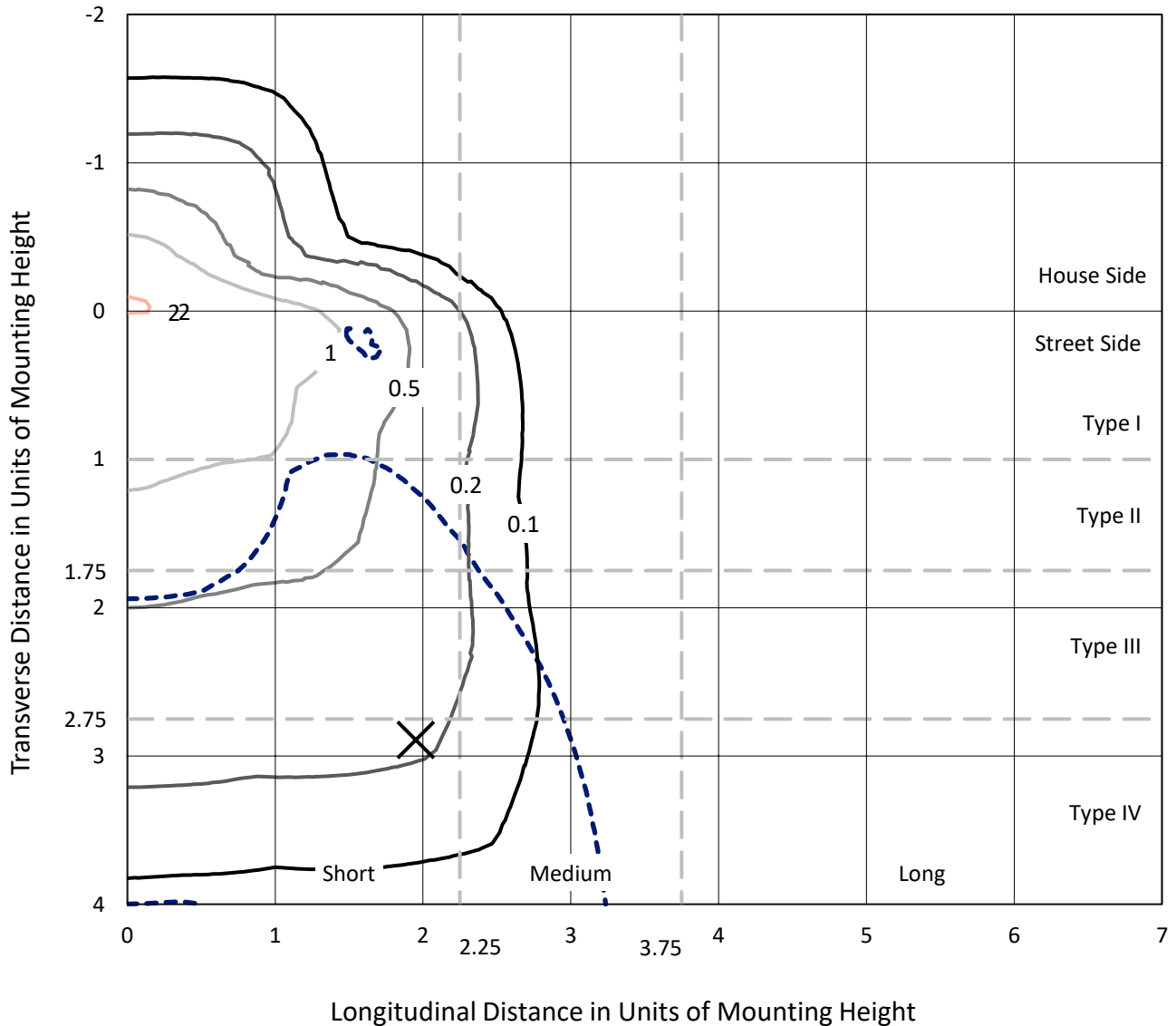
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

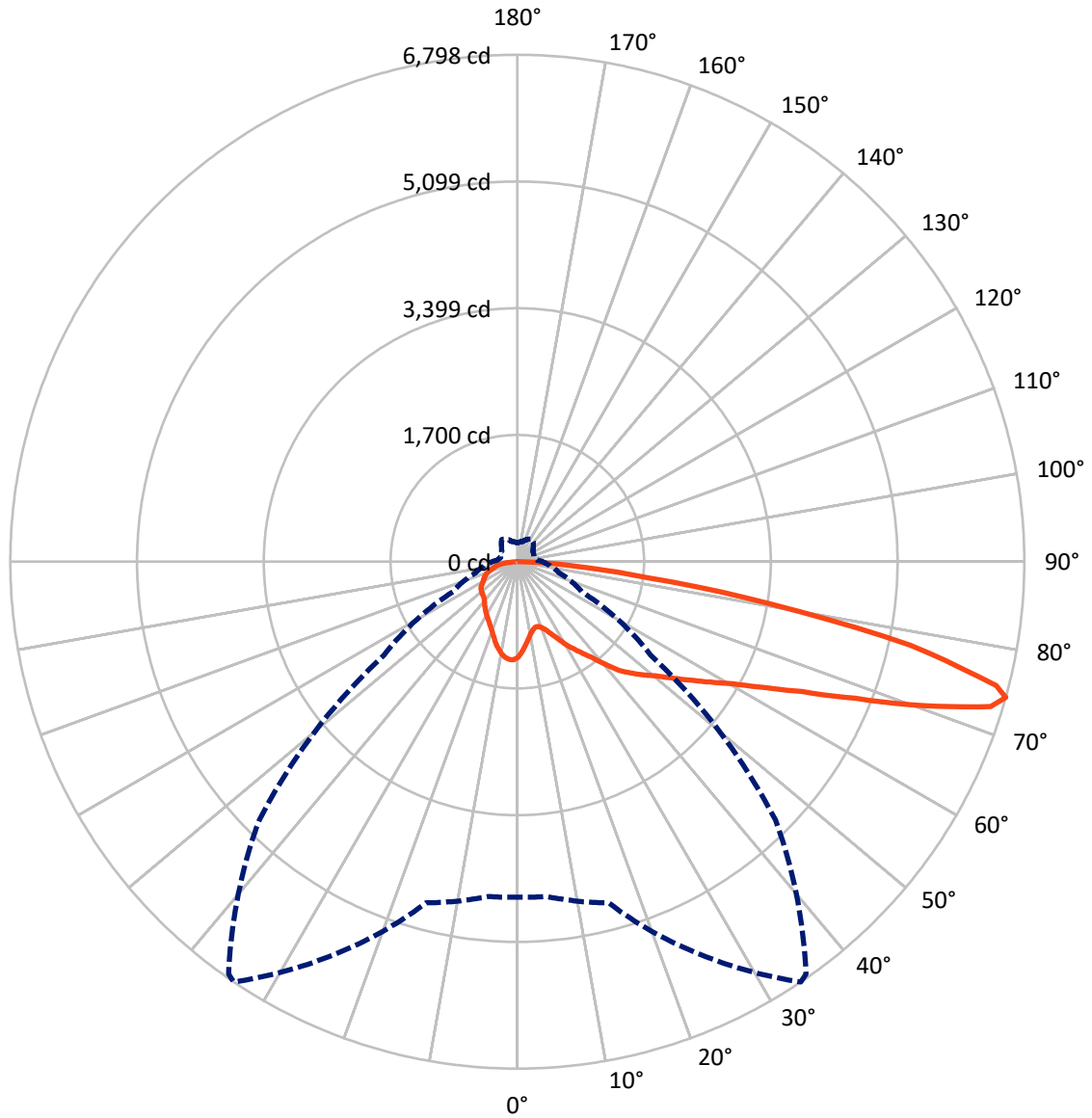
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 34-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1786.1	0.0	1786.1
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	6606.9	0.0	6606.9
	% Fixture	78.7	0.0	78.7
Total	Lumens	8393.0	0.0	8393.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.5	1.4
10°-20°	319.0	3.8
20°-30°	526.0	6.3
30°-40°	787.9	9.4
40°-50°	1145.4	13.6
50°-60°	1599.8	19.1
60°-70°	2002.9	23.9
70°-80°	1656.2	19.7
80°-90°	239.3	2.9
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°	8393.0	100.0
0°-180°	8393.0	100.0

Coefficient of Utilization



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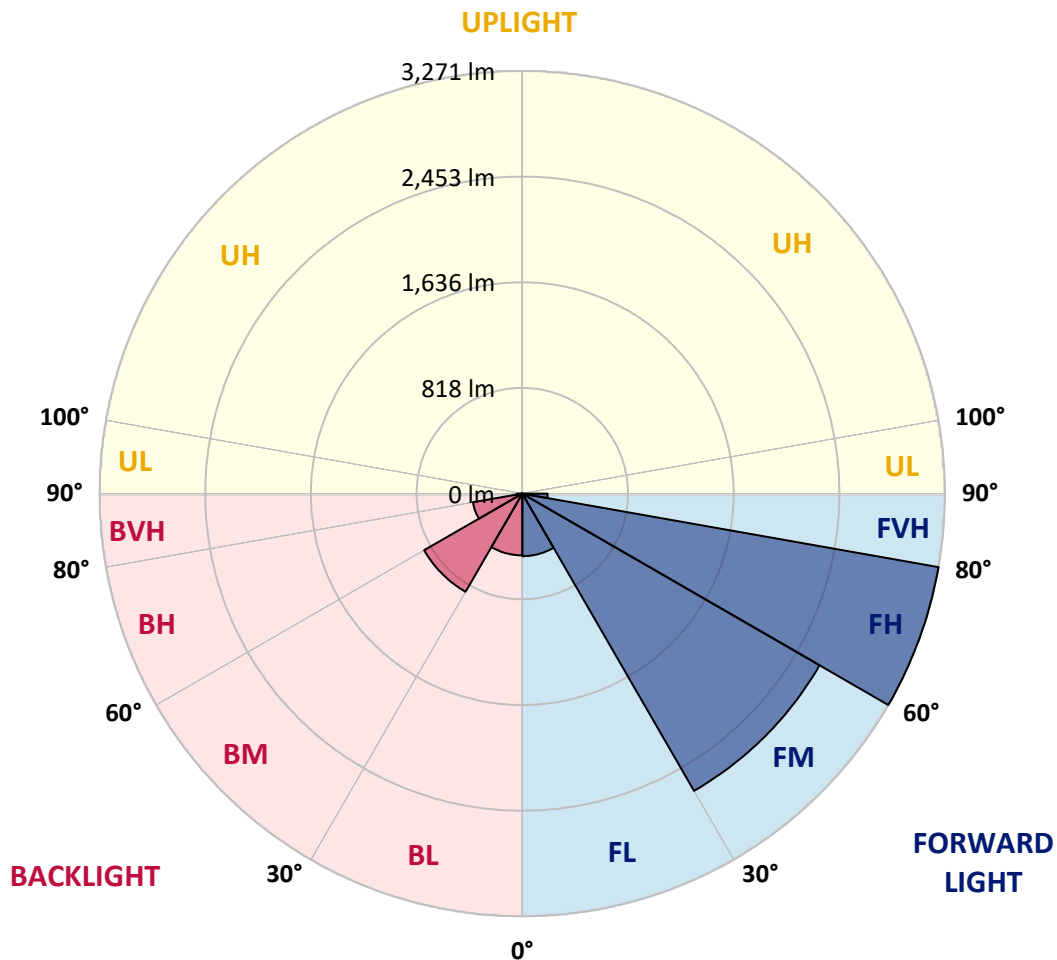
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	483.8	5.8			
FM (30°-60°)	2655.9	31.6			
FH (60°-80°)	3271.1	39.0			G2/5000
FVH (80°-90°)	196.1	2.3			G2/225
BL (0°-30°)	477.8	5.7	B1/500		
BM (30°-60°)	877.2	10.5	B1/1000		
BH (60°-80°)	387.9	4.6	B1/500		G1/500
BVH (80°-90°)	43.3	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4
2.5°	1184.3	1190.3	1193.6	1205.2	1208.0	1211.7	1221.5	1234.5	1251.2	1266.1	1279.1
5°	1085.7	1095.0	1100.6	1110.8	1130.8	1132.7	1158.7	1188.5	1222.4	1254.0	1280.1
7.5°	992.2	1002.5	1007.1	1025.7	1052.2	1056.4	1094.5	1141.5	1198.2	1246.1	1286.1
10°	922.0	927.1	937.4	951.3	982.9	985.7	1035.5	1098.2	1171.7	1242.4	1296.3
12.5°	883.9	886.7	889.0	903.9	935.0	939.2	991.3	1062.4	1150.8	1245.2	1313.1
15°	889.5	890.4	880.2	883.0	908.1	914.1	965.7	1038.7	1137.8	1252.2	1338.2
17.5°	936.4	933.2	908.1	895.1	912.7	915.5	960.6	1029.4	1131.7	1265.2	1364.2
20°	1010.4	1005.7	962.5	933.7	943.9	946.2	977.4	1036.4	1137.8	1286.6	1404.7
22.5°	1102.4	1100.6	1035.0	1000.1	999.7	999.7	1015.9	1061.5	1155.9	1315.9	1447.0
25°	1231.2	1221.5	1135.9	1090.8	1078.3	1077.3	1075.5	1102.9	1179.2	1347.0	1497.2
27.5°	1363.3	1346.5	1270.3	1201.0	1174.0	1170.8	1158.7	1161.5	1208.9	1382.3	1554.4
30°	1481.8	1471.2	1399.5	1322.8	1290.7	1283.3	1249.8	1234.5	1258.7	1446.0	1645.5
32.5°	1572.5	1566.0	1510.2	1440.5	1393.0	1391.6	1342.8	1330.3	1336.3	1523.2	1749.7
35°	1646.0	1648.3	1619.9	1559.5	1505.1	1497.2	1464.6	1448.8	1431.2	1634.8	1880.8
37.5°	1746.4	1751.5	1749.7	1697.6	1631.1	1633.0	1625.5	1599.5	1552.5	1759.4	2026.3
40°	1857.1	1860.8	1860.3	1840.3	1805.5	1807.3	1804.5	1774.8	1704.6	1918.0	2188.1
42.5°	2010.0	1992.4	1946.3	1966.3	1986.8	1995.6	2014.7	1986.3	1890.1	2087.2	2340.2
45°	2181.2	2147.7	2043.5	2052.8	2128.6	2145.4	2250.4	2211.4	2091.4	2281.6	2519.2
47.5°	2289.0	2256.0	2168.1	2166.3	2266.7	2283.0	2469.0	2454.6	2274.6	2491.3	2737.7
50°	2385.3	2380.6	2281.6	2305.3	2403.4	2427.6	2707.0	2693.5	2457.3	2738.6	2975.8
52.5°	2528.0	2490.4	2411.3	2460.1	2589.9	2621.5	2943.2	2903.7	2625.2	2957.2	3206.9
55°	2592.2	2583.3	2578.7	2621.0	2799.1	2821.9	3172.9	3082.3	2768.4	3142.2	3382.6
57.5°	2763.8	2747.5	2793.5	2822.3	3045.5	3080.4	3412.8	3268.7	2893.9	3289.2	3468.2
60°	2986.0	2977.2	3019.5	3071.6	3320.8	3373.8	3686.2	3427.7	2994.8	3363.1	3421.2
62.5°	3318.0	3317.1	3309.2	3420.8	3710.9	3759.7	4000.1	3582.6	3010.7	3307.8	3178.5
65°	3794.1	3777.4	3708.6	3830.4	4196.3	4253.5	4327.0	3669.0	2915.3	3023.7	2676.3
67.5°	4292.1	4291.2	4235.4	4393.5	4893.3	4952.3	4735.7	3650.0	2650.8	2449.4	1900.8
70°	4705.0	4685.0	4756.1	5177.4	5783.7	5852.1	5093.2	3425.4	2111.4	1617.6	1129.4
72.5°	4804.0	4805.0	4952.8	5781.8	6638.8	6649.5	5222.0	2776.3	1413.0	892.3	564.9
74°	4499.0	4506.9	4736.1	5812.1	6798.3	6749.9	4892.8	2182.1	955.5	582.6	407.3
75°	4106.6	4056.8	4388.3	5610.7	6632.7	6580.7	4507.4	1751.1	729.1	465.4	356.6
77.5°	2195.6	2246.2	2757.7	4187.0	5388.5	5328.5	3056.2	839.7	393.8	324.1	256.7
80°	781.6	862.0	1211.7	2190.9	3454.7	3473.3	1458.6	385.0	277.1	239.0	181.3
82.5°	319.0	327.8	520.3	972.2	1754.3	1771.1	595.6	228.8	198.1	164.6	108.3
85°	124.6	128.3	230.2	437.1	748.6	797.4	206.0	120.9	121.8	94.4	55.3
87.5°	41.8	47.4	94.4	145.5	254.3	249.2	60.0	35.8	43.7	40.9	17.2
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°	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4	1281.4
2.5°	1285.6	1294.5	1300.5	1307.0	1313.1	1314.9	1313.5	1317.7	1318.2	1318.6	1319.1
5°	1293.1	1305.2	1316.8	1323.3	1326.1	1323.8	1315.9	1311.7	1307.9	1305.2	1306.1
7.5°	1303.3	1320.5	1331.2	1334.0	1326.5	1315.9	1296.3	1281.0	1271.2	1264.7	1264.2
10°	1319.1	1335.8	1344.7	1336.8	1316.3	1290.3	1259.6	1230.8	1208.9	1202.4	1201.9
12.5°	1339.1	1358.2	1357.7	1334.5	1298.6	1252.2	1202.4	1168.9	1139.2	1124.3	1130.3
15°	1365.1	1379.6	1366.1	1324.2	1267.5	1203.8	1142.4	1096.9	1063.4	1047.6	1048.5
17.5°	1395.4	1407.9	1372.1	1306.1	1223.8	1142.0	1070.8	1027.6	1001.1	989.4	988.5
20°	1433.0	1436.7	1372.1	1274.5	1167.5	1069.9	1002.0	971.8	956.9	950.9	952.7
22.5°	1473.5	1466.0	1364.7	1229.8	1093.6	994.6	949.0	935.5	928.1	927.1	928.1
25°	1519.0	1498.1	1349.3	1169.4	1016.4	929.5	903.0	905.3	906.7	906.7	909.9
27.5°	1574.8	1533.0	1323.8	1093.1	926.2	869.0	861.6	877.9	885.3	886.7	889.0
30°	1648.3	1571.1	1281.4	997.8	849.5	814.6	827.6	849.5	857.9	863.0	862.0
32.5°	1735.7	1613.0	1224.3	902.5	787.7	776.5	792.3	814.6	823.9	826.7	823.0
35°	1838.5	1660.4	1148.9	813.2	733.7	740.2	758.8	765.8	774.2	774.2	776.0
37.5°	1949.1	1698.5	1056.9	731.4	691.9	715.6	729.1	722.6	718.8	714.2	716.5
40°	2061.7	1726.9	937.4	650.5	650.0	690.0	693.7	675.1	660.3	655.6	653.3
42.5°	2159.8	1744.6	829.5	587.7	610.5	664.9	667.7	637.9	614.2	600.3	595.6
45°	2275.5	1765.0	724.0	535.6	573.8	644.9	651.9	611.9	577.0	547.7	540.3
47.5°	2434.1	1811.5	640.7	495.2	547.3	632.4	642.1	590.5	544.5	506.3	500.3
50°	2613.1	1875.2	576.1	467.8	526.8	621.2	633.3	568.7	514.3	471.9	467.3
52.5°	2777.2	1909.6	520.3	443.1	506.8	600.7	621.7	552.8	484.5	437.5	433.3
55°	2867.0	1853.8	465.4	418.9	479.4	574.2	605.4	531.0	455.7	419.4	413.4
57.5°	2879.1	1738.5	415.7	392.9	450.6	541.7	575.2	504.5	437.1	406.8	401.7
60°	2785.6	1566.5	377.1	371.5	421.3	505.0	541.2	481.2	418.0	392.9	387.8
62.5°	2553.1	1379.6	350.1	352.0	391.5	466.4	516.1	458.9	399.9	377.6	372.9
65°	2153.3	1138.7	324.1	332.0	365.0	436.1	493.3	440.3	381.7	365.9	361.7
67.5°	1495.8	822.1	302.7	311.1	339.9	405.4	466.8	420.3	361.3	352.9	346.4
70°	828.1	505.9	277.6	287.3	313.9	371.0	437.1	390.1	331.5	327.8	318.5
72.5°	435.2	322.2	249.2	259.9	278.5	326.9	391.5	357.1	302.2	286.4	274.3
74°	339.9	264.1	230.2	241.3	253.9	300.8	364.5	333.4	281.3	262.7	253.4
75°	296.2	235.3	213.9	228.3	239.5	283.2	343.6	316.6	269.7	252.0	243.6
77.5°	209.2	176.2	174.8	192.0	198.1	248.3	309.7	288.3	240.4	221.8	213.9
80°	146.9	132.1	138.6	149.3	157.6	219.5	287.3	249.2	197.1	175.3	172.5
82.5°	95.8	86.5	99.0	108.8	111.6	161.8	232.0	189.2	143.7	116.7	108.3
85°	44.2	43.2	56.7	55.3	54.9	79.0	137.6	110.7	82.8	61.8	58.1
87.5°	11.2	10.7	13.9	11.6	13.9	12.1	12.6	3.3	0.5	0.0	0.0
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)