

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: P526920

Luminaire Tested: **GALN-SA1D-827-U-T3R-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526920
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-12)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-827-U-T3R-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 2700K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5024 lumens
Efficiency: N/A
Efficacy: 77.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

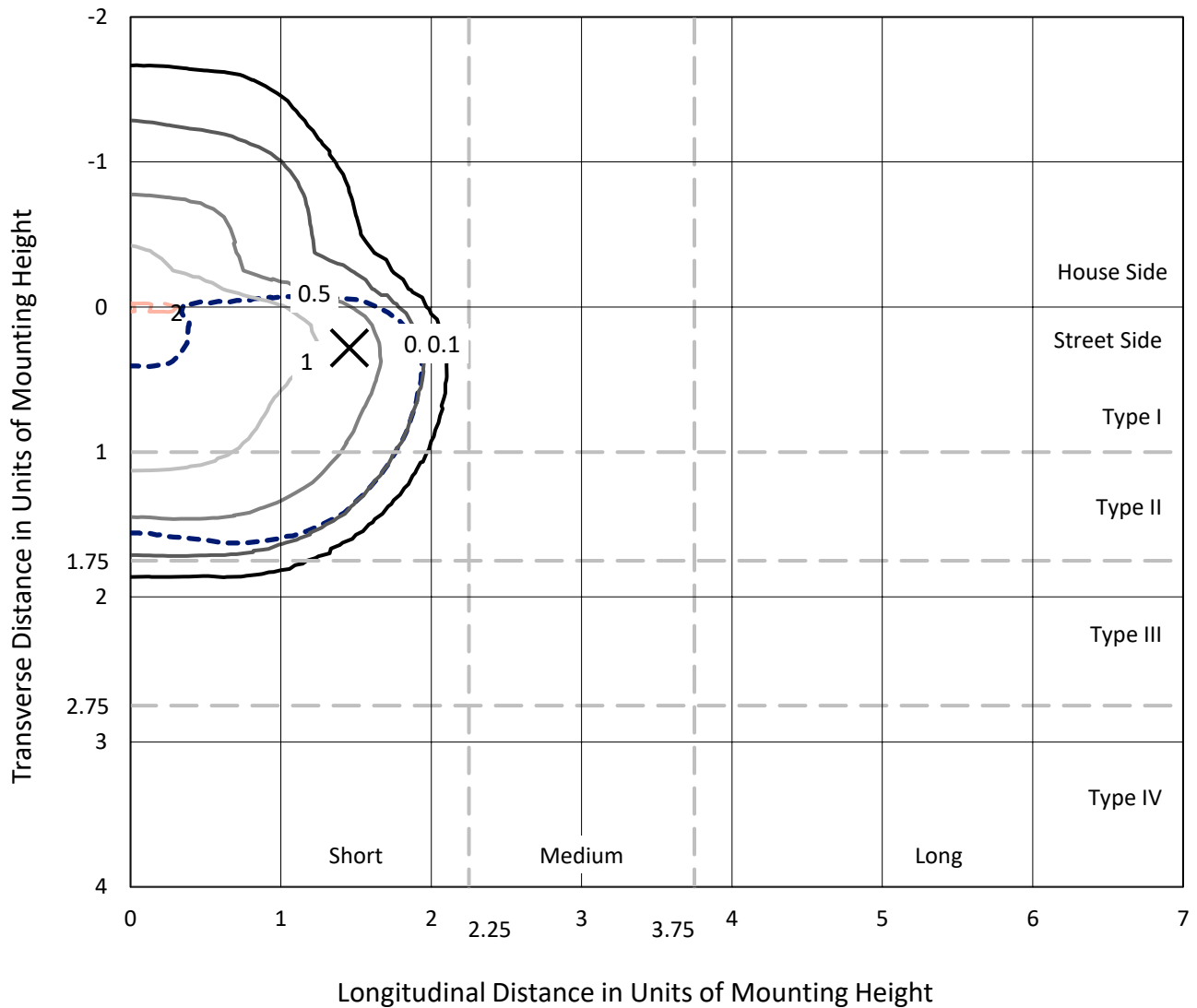
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

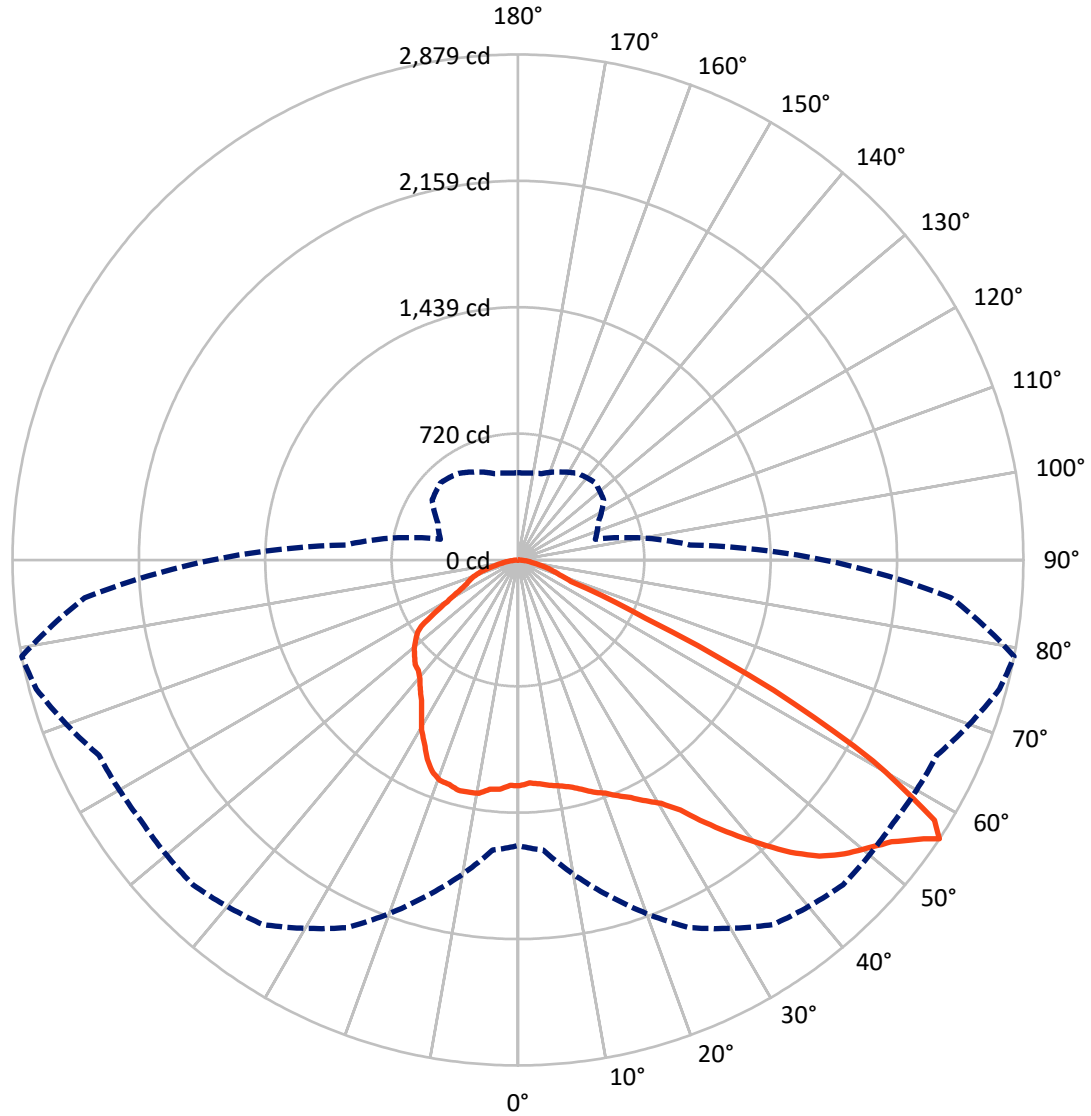
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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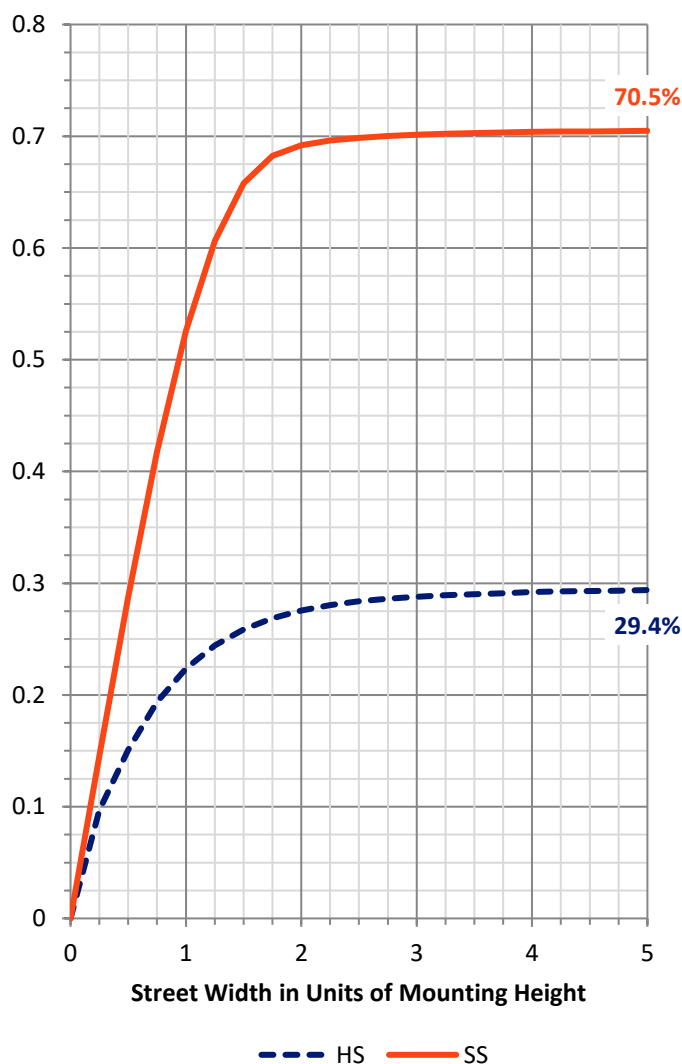
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1483.7	0.0	1483.7
	% Fixture	29.5	0.0	29.5
Street Side	Lumens	3540.3	0.0	3540.3
	% Fixture	70.5	0.0	70.5
Total	Lumens	5024.0	0.0	5024.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	116.9	2.3
10°-20°	319.8	6.4
20°-30°	547.2	10.9
30°-40°	838.6	16.7
40°-50°	1133.4	22.6
50°-60°	1301.8	25.9
60°-70°	593.4	11.8
70°-80°	146.3	2.9
80°-90°	26.6	0.5
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°	5024.0	100.0
0°-180°	5024.0	100.0

Coefficient of Utilization

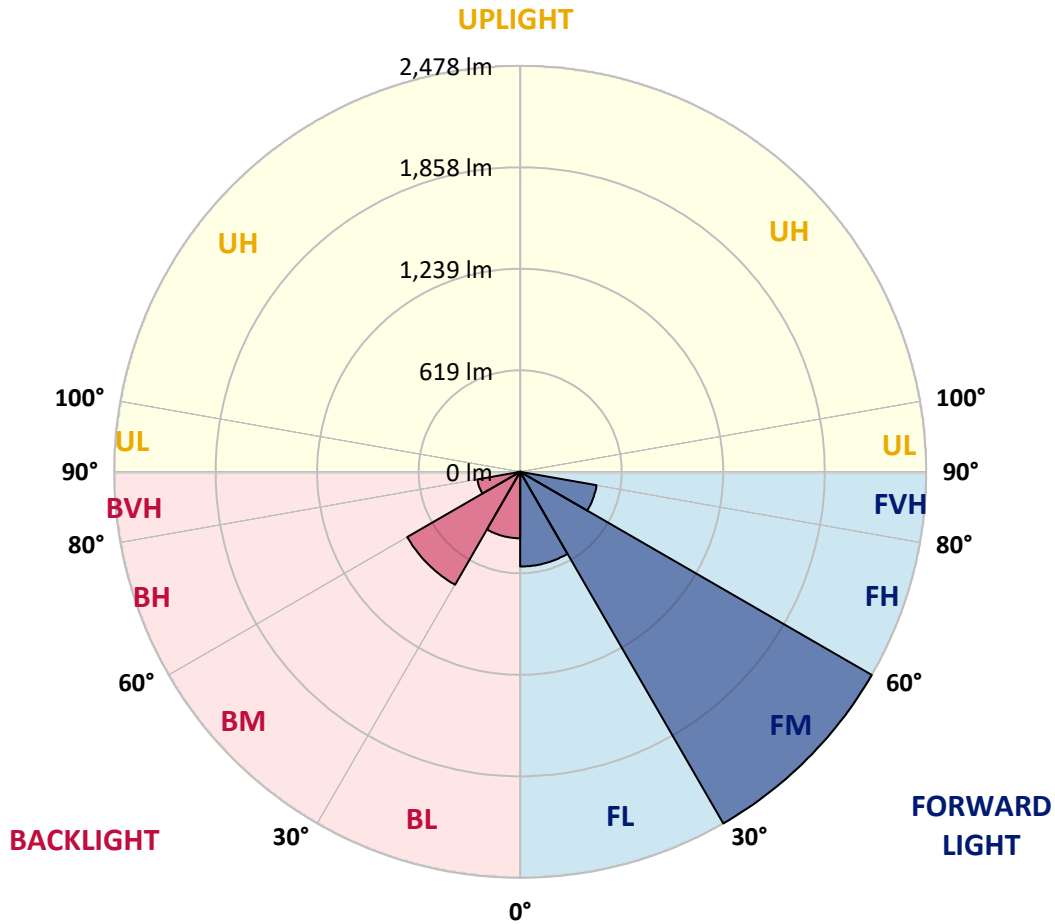


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	578.1	11.5			
FM (30°-60°)	2478.0	49.3			
FH (60°-80°)	473.6	9.4			G0/660
FVH (80°-90°)	10.6	0.2			G1/100
BL (0°-30°)	405.9	8.1	B1/500		
BM (30°-60°)	795.8	15.8	B1/1000		
BH (60°-80°)	266.0	5.3	B1/500		G1/500
BVH (80°-90°)	16.0	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4
2.5°	1222.9	1219.7	1227.2	1232.9	1239.8	1248.5	1252.9	1255.4	1277.3	1271.7	1288.6
5°	1196.6	1188.4	1194.1	1198.5	1210.3	1221.0	1232.9	1251.6	1271.7	1280.4	1301.1
7.5°	1173.4	1169.0	1167.8	1170.9	1187.2	1201.0	1221.6	1249.1	1281.7	1296.1	1308.0
10°	1135.2	1129.0	1138.4	1159.0	1163.4	1192.2	1216.0	1255.4	1283.6	1308.6	1343.6
12.5°	1118.3	1112.1	1114.0	1125.9	1156.5	1184.1	1212.2	1256.7	1316.1	1326.1	1373.1
15°	1145.3	1139.0	1140.9	1137.7	1167.2	1181.6	1226.0	1281.7	1338.6	1355.5	1405.6
17.5°	1206.6	1207.2	1199.1	1192.2	1185.3	1216.0	1246.6	1296.7	1347.4	1390.0	1427.5
20°	1323.6	1303.0	1286.7	1247.9	1237.3	1250.4	1289.2	1337.4	1383.1	1418.1	1460.7
22.5°	1413.7	1415.6	1392.5	1328.6	1305.5	1311.1	1344.3	1383.7	1433.8	1458.8	1507.6
25°	1544.5	1531.4	1506.4	1455.7	1403.7	1408.1	1432.5	1468.2	1482.0	1499.5	1552.7
27.5°	1664.1	1667.8	1618.4	1570.8	1506.4	1493.8	1537.6	1543.9	1520.8	1553.9	1572.1
30°	1785.5	1782.3	1749.8	1694.1	1630.9	1633.4	1652.8	1622.1	1590.2	1608.4	1620.9
32.5°	1911.3	1875.6	1874.3	1824.3	1776.1	1752.9	1729.2	1744.2	1694.7	1698.5	1686.6
35°	2012.0	2017.0	1988.2	1952.6	1928.8	1888.1	1823.0	1849.9	1840.5	1836.2	1784.9
37.5°	2085.2	2065.8	2080.2	2068.3	2045.8	1995.1	1927.5	1953.2	1957.6	1978.9	1919.4
40°	2145.3	2137.2	2175.4	2181.6	2166.0	2056.5	1935.0	2011.4	2077.1	2123.4	2052.7
42.5°	2174.1	2191.6	2231.7	2279.9	2244.8	2127.8	1973.8	2055.8	2202.3	2275.5	2179.1
45°	2212.9	2190.4	2249.8	2338.1	2338.7	2187.9	2011.4	2115.9	2299.9	2406.3	2265.5
47.5°	2173.5	2184.8	2246.1	2358.1	2386.9	2251.1	2112.8	2201.0	2407.5	2502.0	2345.6
50°	2085.2	2107.8	2219.8	2336.2	2423.2	2318.1	2229.2	2293.0	2507.1	2579.0	2358.7
52.5°	1993.2	2005.8	2181.0	2353.1	2439.5	2404.4	2385.0	2420.1	2628.5	2666.0	2375.0
55°	1742.9	1802.4	2052.7	2345.6	2518.9	2560.2	2545.2	2596.5	2766.1	2803.7	2463.9
56°	1627.1	1658.4	1975.7	2310.5	2534.6	2617.2	2609.7	2632.8	2839.4	2878.8	2477.6
57.5°	1413.1	1415.6	1684.7	2155.3	2475.8	2634.1	2626.6	2644.7	2825.0	2798.1	2356.9
60°	884.3	923.1	1146.5	1657.8	2105.3	2443.8	2486.4	2340.6	2381.9	2324.9	1833.7
62.5°	458.1	452.5	600.8	969.4	1397.5	1749.8	1789.2	1782.3	1718.5	1635.3	1197.8
65°	228.4	229.7	314.2	480.0	715.9	916.2	1026.4	1038.2	868.6	799.2	568.2
67.5°	165.8	172.1	225.9	293.5	337.3	377.4	462.5	453.7	343.6	326.7	302.9
70°	128.9	134.6	183.4	224.0	203.4	203.4	221.5	229.1	244.7	251.6	259.7
72.5°	93.9	98.3	140.2	154.6	133.3	143.3	165.8	183.4	199.6	202.1	211.5
75°	64.5	68.2	92.0	85.1	80.1	98.9	121.4	137.7	149.6	155.8	161.5
77.5°	41.9	43.2	52.6	44.4	51.3	63.8	78.9	92.6	104.5	109.5	110.8
80°	18.8	20.7	22.5	28.2	35.7	45.7	56.3	67.6	75.1	77.0	80.7
82.5°	10.6	10.6	13.8	20.0	26.3	33.2	40.7	48.8	57.6	59.5	58.8
85°	5.6	5.6	8.1	11.9	16.3	19.4	18.8	19.4	20.7	23.8	23.2
87.5°	1.9	1.9	2.5	2.5	3.1	3.8	3.1	4.4	5.6	5.6	5.6
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°	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4	1285.4
2.5°	1283.6	1289.2	1281.7	1298.0	1298.0	1294.8	1279.2	1284.2	1287.9	1287.9	1291.1
5°	1308.0	1306.1	1311.1	1291.7	1279.8	1275.4	1249.8	1237.3	1226.6	1226.0	1216.6
7.5°	1321.7	1316.7	1314.9	1300.5	1247.9	1216.0	1160.9	1129.0	1122.1	1097.7	1107.1
10°	1343.6	1353.0	1343.6	1265.4	1192.2	1119.0	1065.2	1015.7	996.3	980.7	971.3
12.5°	1388.7	1384.3	1329.9	1224.1	1121.5	1034.5	954.4	902.4	883.0	869.3	868.0
15°	1426.9	1405.0	1321.7	1159.0	1011.3	918.7	853.0	816.1	807.3	808.6	814.2
17.5°	1440.0	1425.0	1279.2	1091.4	929.3	820.5	789.8	784.2	792.3	801.7	804.2
20°	1460.7	1436.9	1261.7	999.4	828.0	759.1	757.2	777.3	792.3	806.1	807.9
22.5°	1503.9	1443.8	1204.7	912.5	758.5	741.0	759.1	776.0	799.2	810.4	800.4
25°	1516.4	1428.8	1124.6	807.9	714.7	729.7	749.1	772.3	788.5	794.8	799.2
27.5°	1527.0	1405.6	1016.3	738.5	700.9	729.1	749.1	768.5	777.3	782.9	787.9
30°	1557.1	1398.7	922.5	692.2	692.2	716.6	742.2	747.2	759.1	766.0	774.8
32.5°	1572.1	1351.2	826.1	662.7	683.4	722.8	724.7	734.1	734.7	740.3	731.0
35°	1611.5	1317.4	736.6	641.5	687.2	716.6	726.0	720.3	689.7	674.6	677.8
37.5°	1640.3	1300.5	672.1	639.0	687.8	723.5	728.5	685.9	654.0	629.0	635.2
40°	1717.9	1258.5	623.3	634.6	693.4	731.0	717.2	670.9	613.3	587.6	583.3
42.5°	1777.3	1228.5	592.7	629.6	697.8	741.6	711.6	640.8	582.0	558.2	564.5
45°	1846.2	1221.6	576.4	630.8	705.3	747.2	704.7	617.7	555.1	545.7	543.8
47.5°	1870.6	1172.2	558.9	620.2	703.4	745.4	681.5	600.2	545.1	546.3	551.4
50°	1829.9	1121.5	545.7	598.3	690.9	728.5	645.2	577.0	539.5	555.1	563.9
52.5°	1778.0	1069.5	518.8	568.9	665.3	702.2	628.3	575.8	533.8	528.8	530.7
55°	1793.6	1027.0	481.3	528.8	623.9	653.4	609.6	563.9	520.1	501.3	507.5
56°	1742.9	983.2	456.9	503.8	595.8	622.1	600.2	553.2	508.8	496.3	496.3
57.5°	1599.6	836.1	424.9	463.7	536.3	567.6	582.0	547.0	496.3	474.4	475.0
60°	1179.7	594.5	381.1	408.7	444.3	469.4	536.3	529.4	465.0	450.0	444.3
62.5°	727.2	434.3	349.8	360.5	378.6	399.3	468.1	479.4	431.8	415.5	411.8
65°	407.4	332.3	326.1	330.4	339.2	349.8	388.6	413.7	381.1	356.1	354.8
67.5°	297.9	297.3	302.3	306.0	309.8	309.8	319.2	329.2	324.8	304.8	302.9
70°	264.7	266.6	270.4	271.0	272.2	267.9	260.3	257.2	262.2	249.7	247.2
72.5°	218.4	224.7	229.1	229.7	222.8	217.2	207.1	196.5	192.8	190.3	189.6
75°	167.7	172.1	174.0	173.4	170.8	162.7	150.8	140.2	133.3	125.8	129.5
77.5°	113.3	119.5	122.7	122.7	118.9	106.4	100.8	92.6	85.7	77.6	78.9
80°	79.5	83.9	88.9	88.2	82.0	75.7	67.6	60.1	54.4	48.2	47.6
82.5°	59.5	62.0	64.5	63.2	58.8	52.6	46.9	40.1	33.8	29.4	29.4
85°	21.3	23.2	28.2	29.4	31.9	31.9	26.9	22.5	18.1	15.0	15.0
87.5°	6.3	6.3	6.9	6.9	6.3	6.9	5.6	6.3	6.9	4.4	4.4
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)