

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: P647240

Luminaire Tested: **GALN-SA1D-835-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647240
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-SA1D-835-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6163.8 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

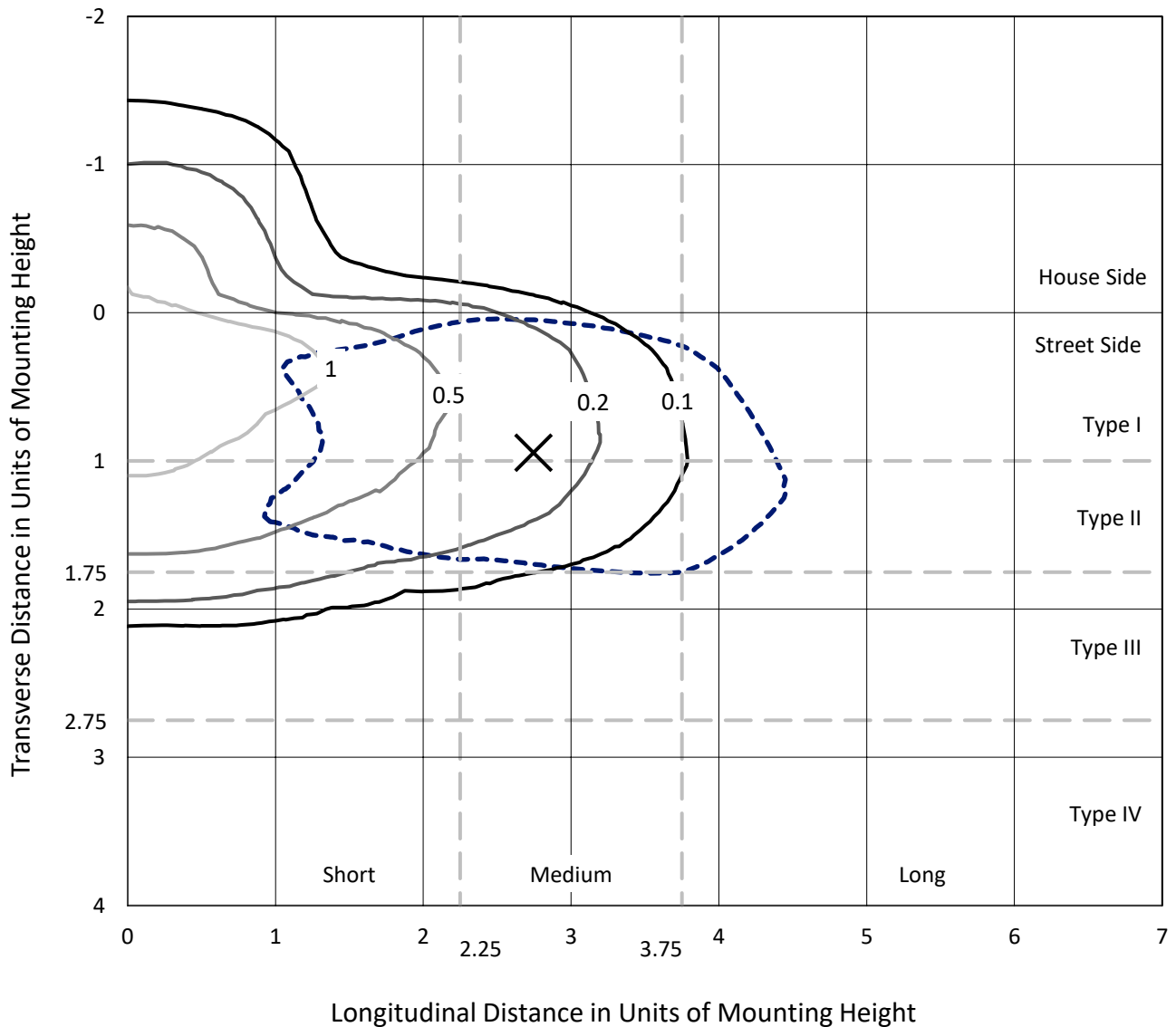
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

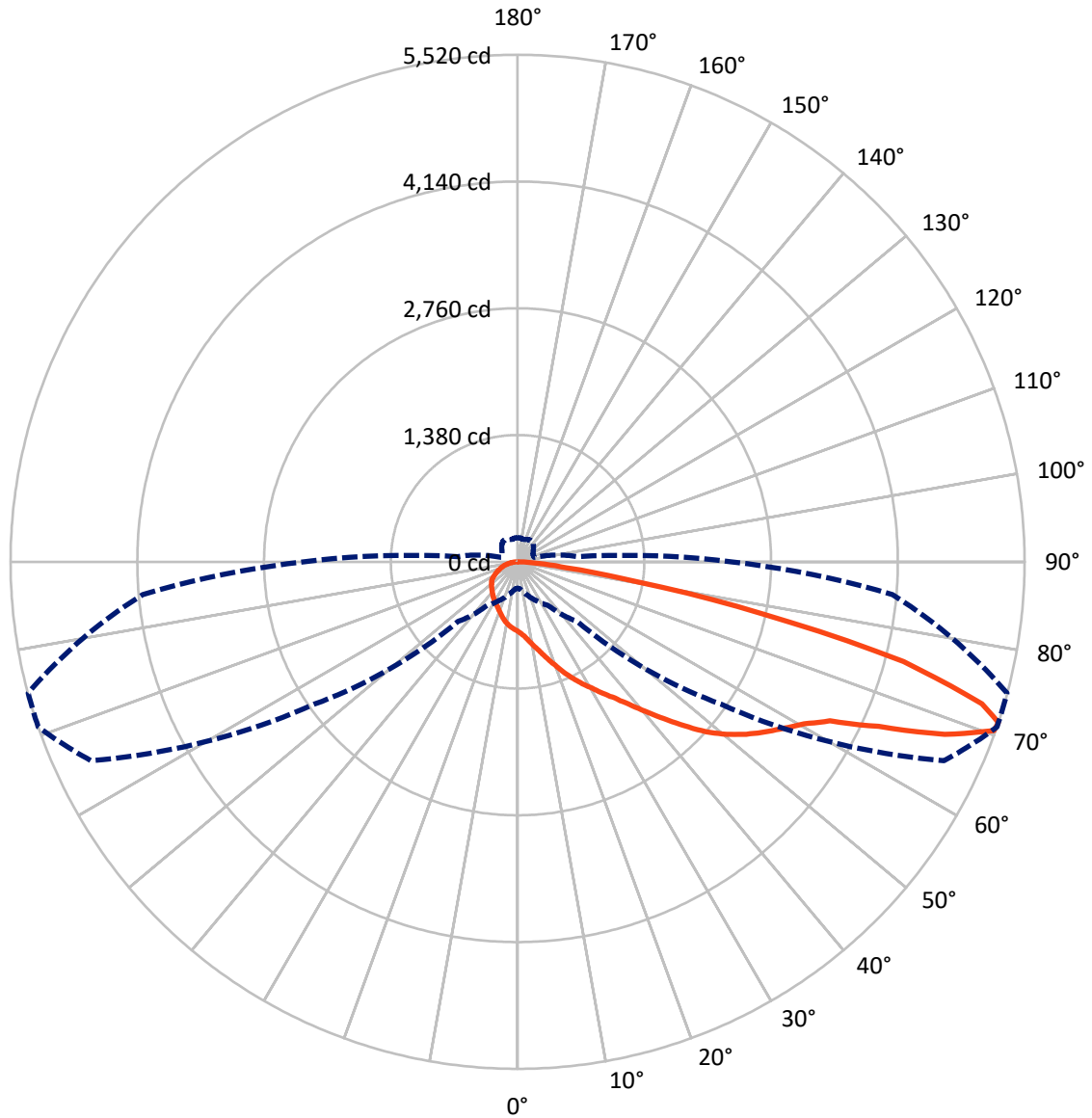
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 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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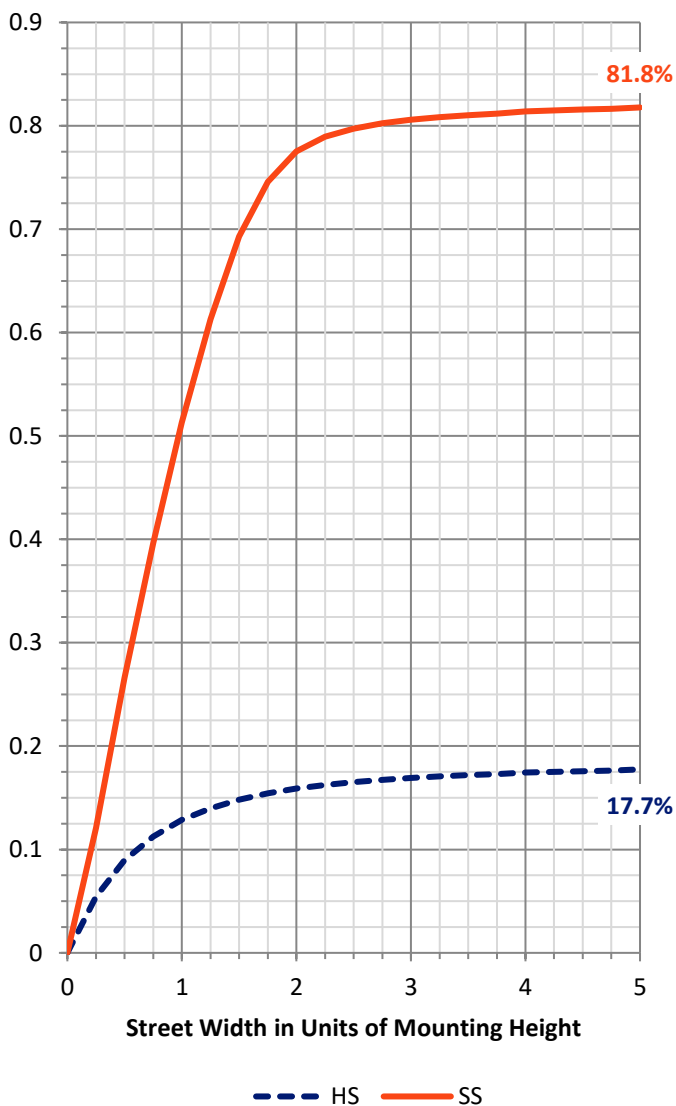
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1108.5	0.0	1108.5
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	5055.2	0.0	5055.2
	% Fixture	82.0	0.0	82.0
Total	Lumens	6163.8	0.0	6163.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	1.2
10°-20°	246.8	4.0
20°-30°	431.3	7.0
30°-40°	641.4	10.4
40°-50°	945.1	15.3
50°-60°	1323.1	21.5
60°-70°	1479.9	24.0
70°-80°	904.0	14.7
80°-90°	116.3	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°	6163.8	100.0
0°-180°	6163.8	100.0

Coefficient of Utilization

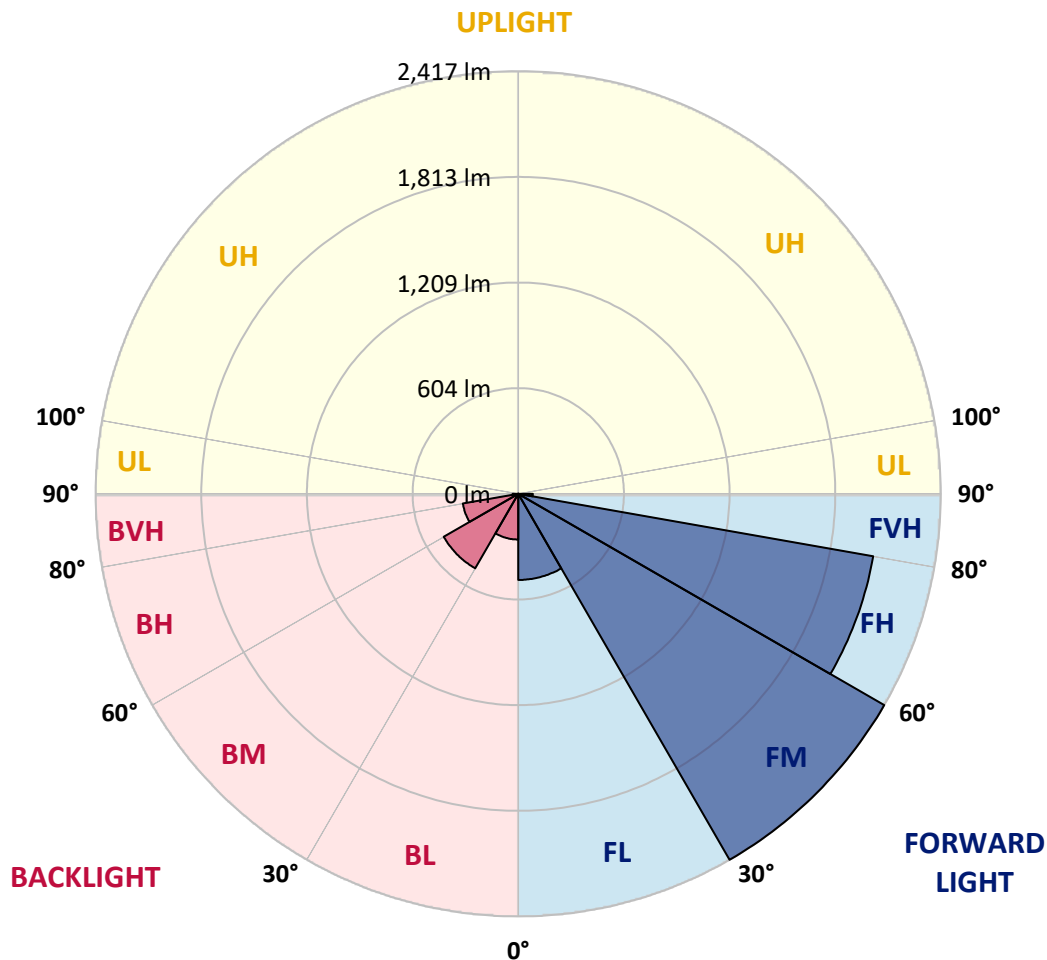


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	492.5	8.0			
FM (30°-60°)	2417.3	39.2			
FH (60°-80°)	2061.8	33.4			G2/5000
FVH (80°-90°)	83.7	1.4			G1/100
BL (0°-30°)	261.5	4.2	B1/500		
BM (30°-60°)	492.3	8.0	B1/1000		
BH (60°-80°)	322.1	5.2	B1/500		G1/500
BVH (80°-90°)	32.6	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°	756.5	756.5	756.5	756.5	756.5	756.5	756.5	756.5	756.5	756.5	756.5
2.5°	839.8	835.8	836.1	830.4	822.9	814.8	803.2	793.1	785.0	780.2	766.3
5°	930.6	926.5	921.4	908.9	903.5	883.5	858.1	835.1	817.5	807.7	779.9
7.5°	1004.1	1003.1	1001.8	994.6	980.8	953.0	931.3	891.3	865.2	846.6	799.1
10°	1049.5	1051.2	1052.2	1053.6	1047.8	1033.2	1003.4	953.0	919.8	896.1	824.3
12.5°	1072.6	1074.3	1080.0	1092.5	1100.3	1098.6	1074.3	1024.8	979.1	947.9	851.0
15°	1086.8	1089.5	1099.6	1116.2	1142.3	1158.9	1147.1	1101.4	1051.2	1014.3	882.8
17.5°	1102.4	1105.4	1116.6	1140.3	1174.5	1210.4	1223.3	1184.1	1129.5	1085.4	918.4
20°	1111.2	1115.2	1131.2	1162.4	1202.3	1254.4	1297.2	1276.5	1216.9	1168.1	959.4
22.5°	1125.4	1128.8	1142.3	1175.5	1223.3	1288.7	1371.0	1366.6	1314.1	1251.1	1004.4
25°	1164.0	1169.4	1176.2	1196.2	1242.3	1323.6	1432.3	1462.8	1408.3	1337.8	1045.8
27.5°	1236.8	1241.3	1240.9	1243.6	1269.7	1353.7	1485.5	1558.0	1501.8	1425.5	1085.8
30°	1319.8	1321.5	1322.9	1316.8	1322.6	1384.6	1534.3	1652.2	1596.0	1515.7	1120.6
32.5°	1420.8	1424.2	1412.7	1397.1	1392.3	1430.3	1574.6	1746.4	1707.4	1607.1	1155.2
35°	1540.1	1548.9	1525.5	1498.0	1478.8	1496.0	1628.8	1842.6	1821.6	1724.0	1201.0
37.5°	1676.2	1687.1	1665.4	1611.6	1584.1	1588.9	1699.7	1961.5	1965.9	1857.1	1269.0
40°	1787.7	1801.9	1802.6	1726.4	1684.7	1690.1	1789.4	2089.6	2140.0	2021.8	1349.3
42.5°	1861.2	1875.1	1889.7	1845.0	1801.3	1832.1	1894.1	2228.4	2335.8	2221.7	1461.5
45°	1941.8	1954.4	1962.5	1942.2	1917.8	1997.7	2020.5	2376.2	2544.5	2444.9	1584.1
47.5°	2035.3	2049.3	2057.0	2037.8	2028.6	2143.1	2156.6	2514.1	2767.4	2661.7	1719.6
50°	2160.0	2170.6	2166.5	2154.3	2152.2	2254.6	2287.4	2643.1	2951.4	2895.1	1860.2
52.5°	2315.2	2327.7	2332.1	2314.9	2307.0	2334.1	2392.8	2760.7	3118.8	3095.7	2010.3
55°	2409.1	2429.0	2496.0	2523.2	2541.9	2437.2	2506.2	2890.4	3268.8	3307.1	2171.6
57.5°	2288.8	2314.5	2464.6	2600.1	2775.3	2694.6	2667.1	3025.9	3418.9	3512.1	2364.7
60°	1995.4	2001.1	2194.6	2444.3	2796.6	3025.6	3002.9	3241.4	3581.5	3718.7	2619.1
62.5°	1384.3	1396.4	1625.1	2023.5	2533.0	3144.8	3574.1	3613.4	3814.6	4028.0	2992.1
65°	713.8	697.9	906.2	1271.7	1909.7	2861.6	4036.8	4297.3	4320.0	4511.8	3517.2
67.5°	439.4	446.5	544.1	742.6	1129.2	2079.7	3988.4	5133.1	5013.5	5105.6	4004.7
70°	330.0	338.8	405.8	508.2	688.4	1189.1	3207.5	5335.7	5502.7	5479.0	4153.0
71°	287.0	296.1	365.9	462.4	578.3	917.8	2702.4	5123.6	5519.7	5515.6	4097.1
72.5°	244.6	250.3	304.9	391.7	487.5	643.3	2030.2	4595.1	5284.2	5419.4	3897.6
75°	192.1	196.5	220.9	298.8	383.8	395.0	1089.5	3445.0	4340.0	4597.5	3244.8
77.5°	156.5	159.6	172.1	221.9	296.1	279.8	571.5	2242.4	2719.0	2978.1	1911.4
80°	124.3	127.7	135.1	150.4	221.9	199.5	272.7	1136.2	1313.4	1310.7	763.0
82.5°	96.5	97.6	106.4	110.4	151.7	141.6	147.7	481.1	532.9	550.5	275.5
85°	61.0	64.0	94.2	84.7	90.8	83.0	72.8	191.1	235.4	232.1	110.1
87.5°	18.6	19.7	31.9	35.9	40.3	36.3	26.8	56.2	68.7	74.5	27.4
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°	756.5	756.5	756.5	756.5	756.5	756.5	756.5	756.5	756.5	756.5	756.5
2.5°	760.9	757.2	743.9	733.1	722.9	711.7	702.3	699.5	697.2	696.2	695.9
5°	768.0	756.8	730.8	709.4	692.5	676.9	667.0	662.7	658.3	658.3	659.6
7.5°	778.1	757.9	717.5	685.7	664.3	649.7	642.7	642.0	643.0	644.0	644.3
10°	789.3	757.2	698.2	658.6	639.6	632.8	633.1	638.9	644.3	648.4	649.1
12.5°	800.1	753.1	675.5	633.1	621.0	622.3	631.8	644.7	655.2	660.9	661.3
15°	812.4	746.7	648.1	609.1	605.0	615.5	633.1	652.8	668.8	678.2	679.3
17.5°	822.5	735.8	619.3	585.8	590.9	610.1	634.5	659.9	679.3	691.1	693.1
20°	834.1	721.9	589.4	563.4	577.9	604.0	631.8	659.3	679.3	690.8	693.5
22.5°	843.2	702.3	561.0	545.1	566.4	596.6	622.6	644.7	660.9	667.0	671.1
25°	847.0	677.5	534.2	530.2	557.3	584.4	602.0	614.5	619.6	619.0	620.6
27.5°	844.9	649.1	511.2	518.3	545.8	565.4	574.3	573.2	564.1	555.6	559.7
30°	836.4	615.2	491.9	506.1	530.9	541.7	540.3	527.1	509.9	493.9	494.9
32.5°	821.2	578.6	473.9	492.3	509.9	514.6	505.4	488.2	463.5	442.8	439.7
35°	808.3	543.7	458.1	476.3	488.8	486.5	477.7	455.3	432.9	414.7	411.6
37.5°	806.3	513.9	442.8	458.4	465.5	462.1	451.2	432.3	424.2	410.3	408.6
40°	817.1	492.9	427.2	439.4	442.8	440.0	428.2	417.3	424.9	421.4	421.4
42.5°	846.6	481.7	413.3	420.4	423.1	425.2	416.7	407.6	416.7	401.1	396.0
45°	893.3	482.1	400.7	401.8	409.9	417.0	411.3	397.7	393.0	361.8	355.7
47.5°	962.2	493.6	390.6	384.1	398.7	410.6	402.5	382.8	361.8	341.2	337.4
50°	1042.4	514.3	381.5	365.9	383.8	402.5	396.4	373.3	351.6	339.1	336.8
52.5°	1131.5	540.3	370.3	345.5	365.5	398.7	397.7	372.0	342.2	333.7	331.7
55°	1241.6	566.1	356.4	321.8	349.3	395.6	394.0	360.8	340.1	334.0	333.3
57.5°	1369.6	603.4	336.4	297.8	330.7	383.1	379.4	354.0	333.3	328.9	328.6
60°	1575.9	661.3	308.0	275.8	311.6	361.1	365.9	342.5	322.5	321.5	321.2
62.5°	1847.3	742.6	278.4	253.1	289.6	332.7	346.2	326.9	311.0	316.1	316.7
65°	2222.0	811.0	248.0	233.7	265.3	305.2	327.6	312.3	298.1	308.0	308.0
67.5°	2466.3	812.4	220.2	213.8	240.5	282.2	308.0	295.0	281.5	298.1	298.8
70°	2415.5	711.7	197.2	192.8	216.5	257.5	286.3	276.1	260.5	275.5	270.0
71°	2333.5	655.8	188.0	184.6	207.0	245.6	276.1	267.6	252.0	261.8	258.9
72.5°	2202.7	569.5	173.1	173.8	192.8	230.7	261.8	253.1	237.5	242.9	241.9
75°	1861.9	497.3	148.1	151.1	165.7	205.3	233.4	226.7	210.7	210.7	209.7
77.5°	1164.0	347.6	123.0	124.7	140.6	175.9	200.5	194.8	179.5	174.5	173.1
80°	434.3	179.5	96.2	98.3	108.1	138.6	166.0	160.6	145.0	139.2	133.8
82.5°	164.3	90.1	70.8	69.1	79.6	105.7	130.1	123.6	111.4	97.6	93.5
85°	62.0	44.7	43.4	42.0	46.7	62.6	80.6	79.2	66.4	56.6	55.6
87.5°	16.3	14.6	16.9	12.5	13.2	11.8	12.2	5.1	2.3	1.0	0.7
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)