

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: P647244

Luminaire Tested: **GALN-SA1D-835-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647244
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA1D-835-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 80 CRI, 3500K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3727.1 lumens
Efficiency: N/A
Efficacy: 57.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

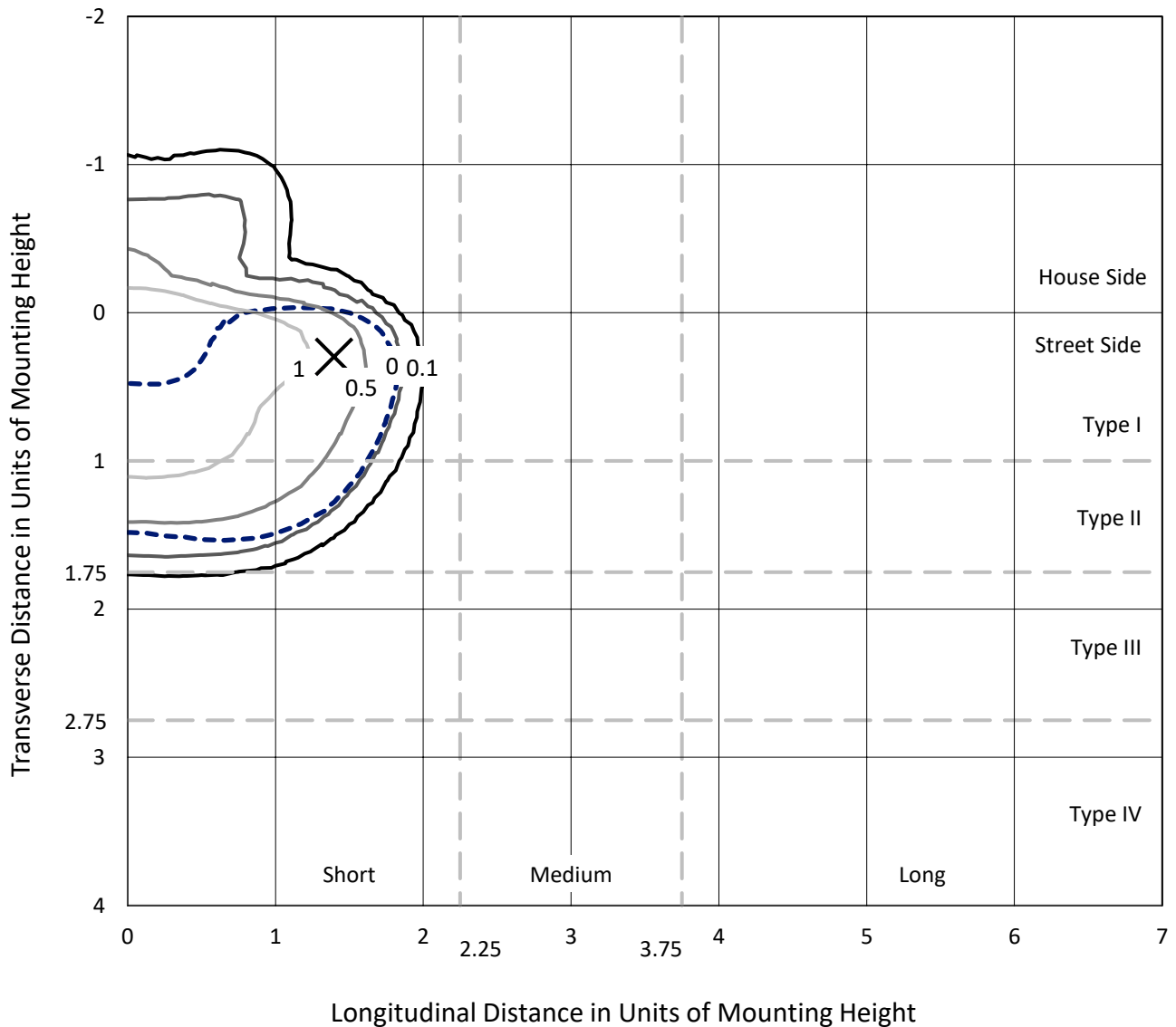
Input Watts (W): 65
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

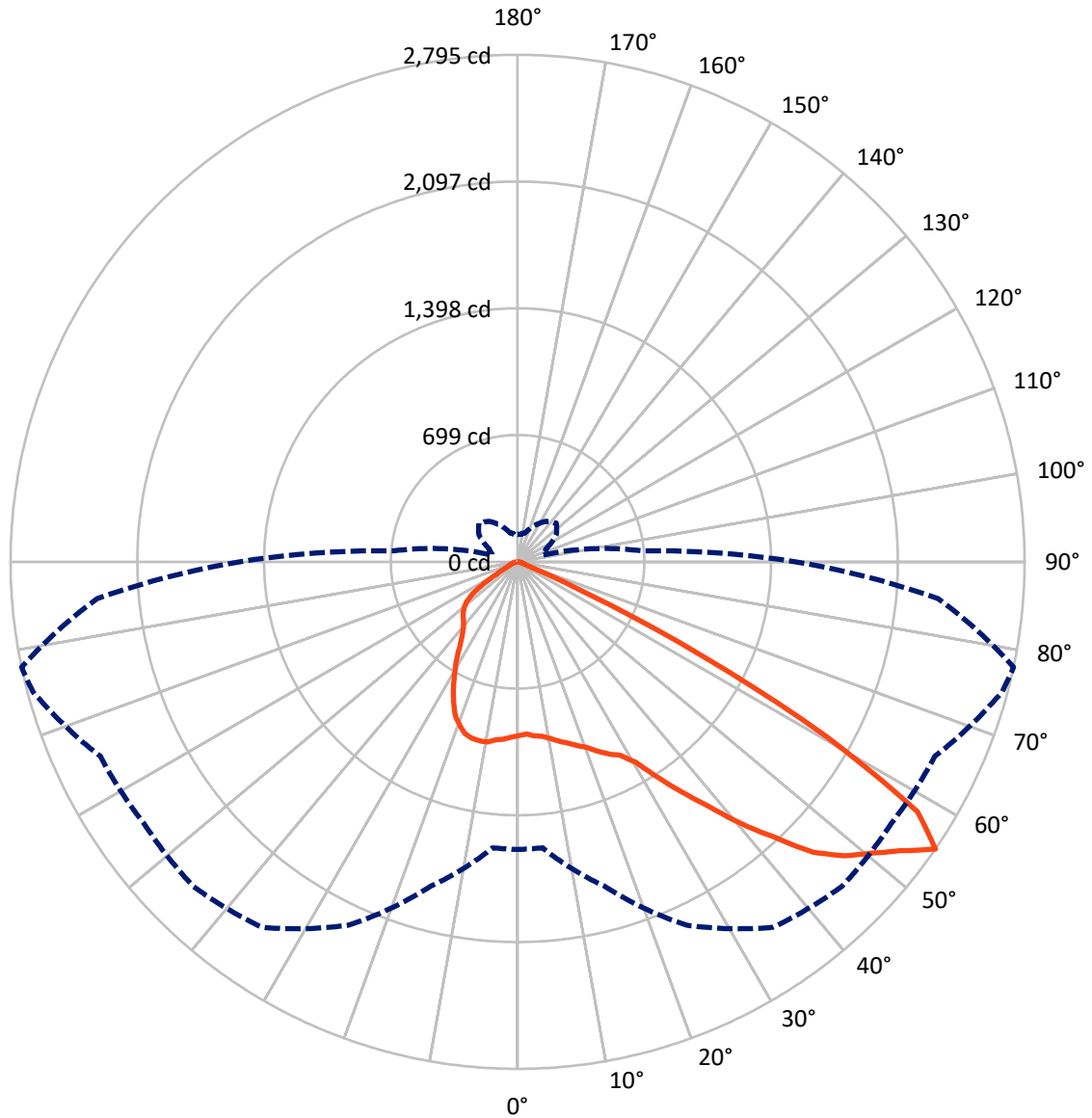
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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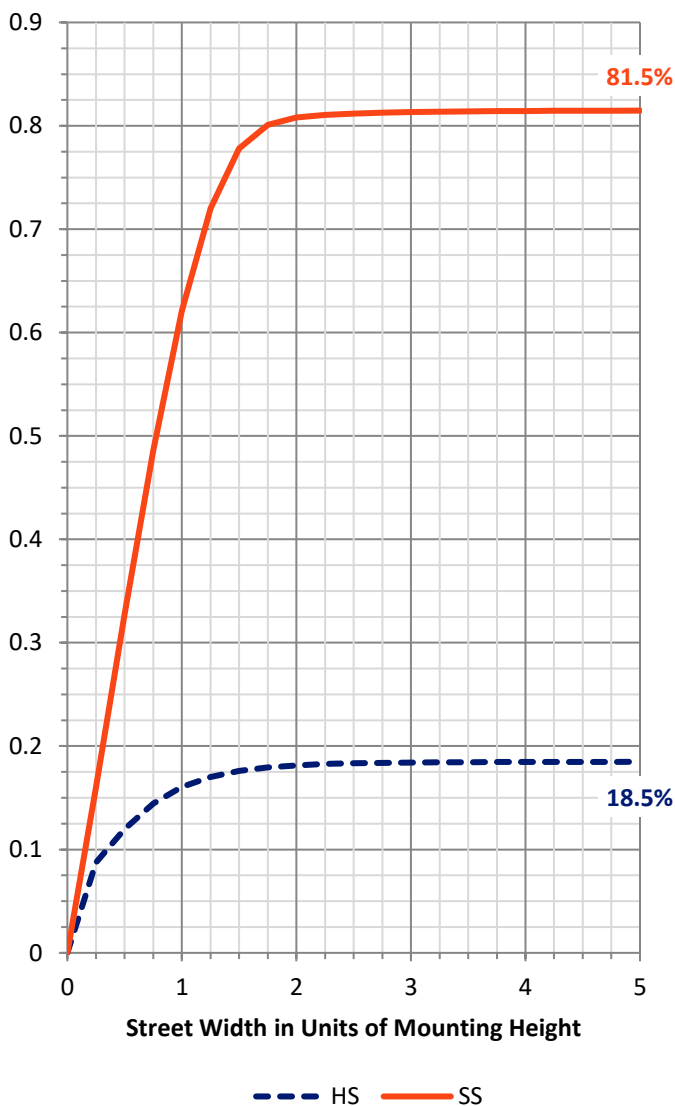
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	692.3	0.0	692.3
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	3034.8	0.0	3034.8
	% Fixture	81.4	0.0	81.4
Total	Lumens	3727.1	0.0	3727.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.4	2.3
10°-20°	226.1	6.1
20°-30°	396.4	10.6
30°-40°	653.6	17.5
40°-50°	951.0	25.5
50°-60°	1077.6	28.9
60°-70°	308.1	8.3
70°-80°	23.9	0.6
80°-90°	5.0	0.1
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°	3727.1	100.0
0°-180°	3727.1	100.0

Coefficient of Utilization

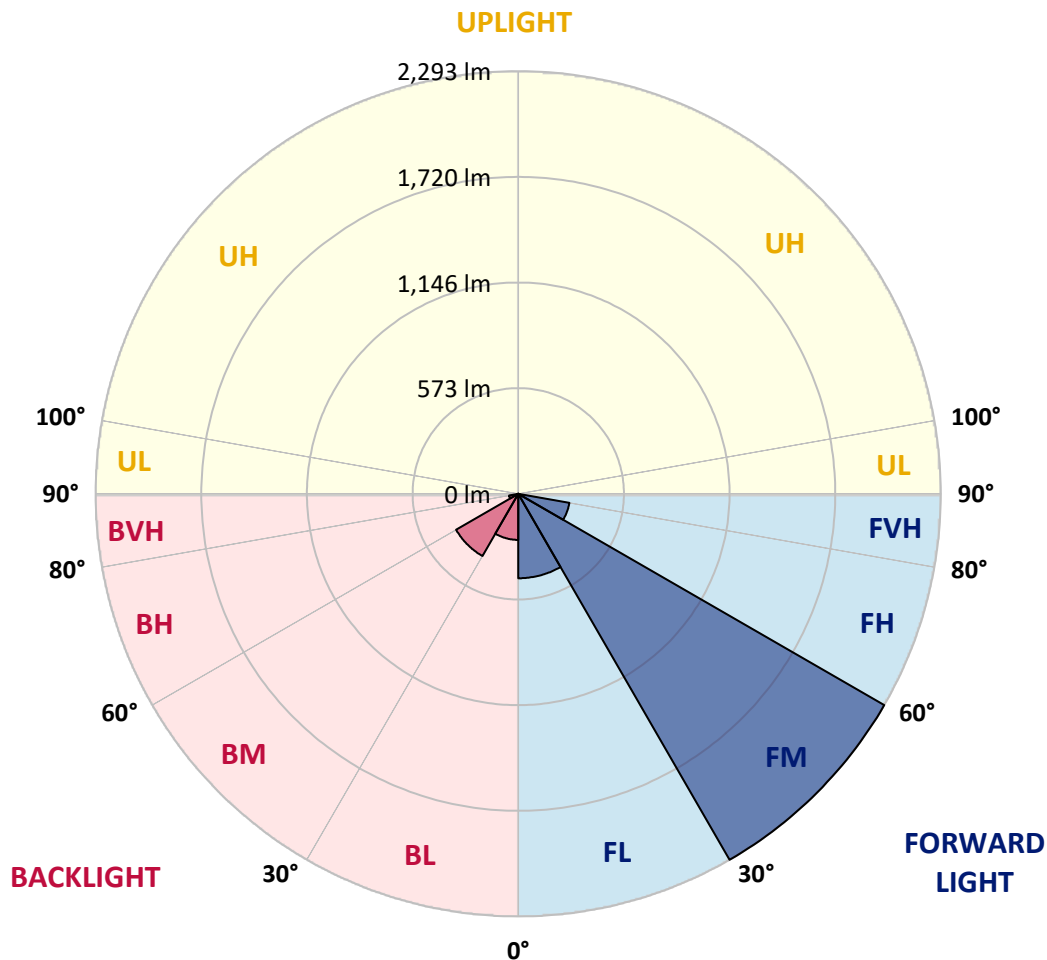


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	458.2	12.3			
FM (30°-60°)	2292.7	61.5			
FH (60°-80°)	281.5	7.6			G0/660
FVH (80°-90°)	2.4	0.1			G0/10
BL (0°-30°)	249.8	6.7	B1/500		
BM (30°-60°)	389.4	10.4	B1/1000		
BH (60°-80°)	50.5	1.4	B0/110		G0/110
BVH (80°-90°)	2.6	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G0
 Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	958.2	958.2	958.2	958.2	958.2	958.2	958.2	958.2	958.2	958.2	958.2
2.5°	900.9	909.6	910.9	921.6	920.9	938.9	944.2	944.9	956.9	950.9	966.2
5°	875.6	870.9	869.0	887.6	892.9	908.9	922.2	930.3	954.9	963.6	979.5
7.5°	852.9	852.9	854.3	870.9	869.0	889.6	903.6	928.2	964.3	971.5	990.9
10°	830.9	822.9	833.0	850.3	865.0	874.3	903.6	926.9	968.9	990.2	1016.9
12.5°	819.6	823.6	825.0	837.7	853.6	881.6	897.6	936.2	1002.2	1014.8	1043.5
15°	890.9	882.9	863.6	852.3	865.6	878.9	918.9	958.2	1019.5	1037.6	1069.5
17.5°	973.6	966.9	950.9	920.3	890.3	914.9	946.3	982.2	1038.2	1064.9	1112.2
20°	1081.5	1070.8	1054.9	994.9	968.9	942.3	975.5	1018.2	1068.9	1092.8	1141.5
22.5°	1210.1	1210.1	1174.1	1101.5	1047.5	1022.2	1036.2	1060.9	1102.9	1135.5	1183.5
25°	1344.1	1340.0	1307.4	1232.1	1140.8	1110.8	1126.8	1144.1	1155.5	1173.5	1205.4
27.5°	1497.3	1474.0	1432.7	1349.4	1268.8	1210.8	1228.1	1212.8	1198.8	1208.1	1254.1
30°	1601.3	1616.0	1563.3	1483.3	1407.4	1342.8	1346.1	1332.7	1268.8	1282.1	1309.4
32.5°	1709.2	1718.5	1689.2	1645.2	1569.3	1494.0	1466.6	1455.4	1407.4	1413.4	1386.7
35°	1799.2	1817.2	1791.2	1771.9	1749.8	1689.2	1613.9	1650.6	1573.3	1558.6	1489.3
37.5°	1881.8	1876.5	1907.2	1887.2	1882.5	1839.8	1757.2	1764.6	1712.6	1709.2	1629.3
40°	1955.8	1957.1	1999.1	2008.4	1989.8	1913.8	1793.9	1851.8	1893.8	1897.8	1795.2
42.5°	2017.1	2035.1	2071.0	2146.4	2118.4	1991.8	1831.8	1895.2	2051.1	2075.7	1952.5
45°	2070.4	2107.1	2151.7	2219.0	2203.0	2102.4	1926.5	1984.4	2219.0	2283.6	2100.4
47.5°	2073.7	2121.7	2170.3	2270.3	2290.3	2161.7	2024.4	2125.7	2352.3	2422.2	2208.4
50°	2060.4	2085.8	2183.0	2291.6	2336.9	2258.3	2161.7	2244.3	2481.6	2525.6	2262.9
52.5°	1902.5	1921.8	2117.1	2311.7	2420.9	2367.6	2343.6	2409.6	2613.5	2646.1	2314.3
55°	1586.0	1582.6	1851.2	2211.0	2459.6	2529.6	2514.8	2538.2	2766.1	2795.4	2326.9
57.5°	1084.8	1145.5	1377.4	1841.1	2223.0	2491.5	2506.9	2468.3	2588.1	2599.5	2028.4
60°	585.1	610.4	796.9	1228.8	1692.5	2030.4	2070.4	2000.4	1991.1	1959.1	1448.0
62.5°	232.6	245.2	351.2	608.4	922.2	1234.1	1320.1	1291.4	1230.1	1146.2	749.6
65°	110.6	118.6	174.6	284.5	409.1	514.4	600.4	627.0	462.4	416.5	247.2
67.5°	75.3	81.3	127.2	162.6	146.0	152.6	198.6	184.6	108.6	92.6	68.7
70°	57.3	61.3	101.9	110.6	65.3	46.0	51.3	48.0	44.6	45.3	44.6
72.5°	40.6	44.0	74.6	65.3	28.7	21.3	27.3	32.7	32.7	32.7	32.0
75°	24.7	28.0	43.3	25.3	11.4	11.4	17.3	22.0	23.3	24.0	22.6
77.5°	12.7	16.0	14.6	7.4	7.4	8.7	12.7	15.3	16.7	16.7	16.0
80°	2.7	2.7	2.7	4.0	7.4	9.3	12.7	14.0	16.0	16.0	14.6
82.5°	0.0	0.7	2.0	4.0	6.7	8.7	12.0	14.0	16.0	16.7	15.3
85°	0.0	0.7	1.3	2.7	4.7	5.3	4.7	4.0	4.0	4.0	4.0
87.5°	0.0	0.0	0.7	0.7	0.7	1.3	1.3	1.3	1.3	1.3	1.3
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°	958.2	958.2	958.2	958.2	958.2	958.2	958.2	958.2	958.2	958.2	958.2
2.5°	967.6	969.6	966.2	965.6	962.9	970.9	951.6	946.9	958.9	947.6	950.2
5°	980.2	984.9	978.9	968.9	954.2	931.6	912.3	886.9	874.9	866.3	865.0
7.5°	989.6	992.9	986.9	954.9	910.9	853.6	811.0	779.6	755.0	747.7	735.7
10°	1027.5	1028.2	998.2	927.6	841.6	766.3	701.0	653.0	628.4	613.1	606.4
12.5°	1052.8	1051.5	990.9	873.6	759.0	659.1	584.4	526.4	503.8	496.4	491.8
15°	1084.8	1077.5	973.6	818.3	652.4	544.4	477.1	437.1	435.1	430.5	435.1
17.5°	1110.1	1089.5	948.2	717.7	550.4	448.5	404.5	407.2	412.5	417.2	417.8
20°	1151.5	1108.8	890.3	629.7	455.8	384.5	383.8	395.8	409.1	414.4	419.8
22.5°	1182.8	1116.8	828.3	535.7	378.5	358.5	369.8	387.8	397.8	403.2	411.2
25°	1194.2	1094.9	745.7	441.8	341.2	346.5	363.9	375.8	388.5	394.5	391.2
27.5°	1205.4	1083.5	647.1	363.9	321.2	338.5	353.2	365.2	369.2	377.2	382.5
30°	1232.8	1044.2	558.4	314.5	311.2	333.2	343.8	347.8	358.5	363.2	363.2
32.5°	1254.8	1028.9	464.5	291.2	309.8	335.8	337.2	337.2	338.5	335.2	333.9
35°	1300.1	976.2	380.5	277.2	309.2	336.5	339.8	328.5	297.9	285.9	282.5
37.5°	1356.1	942.3	318.5	273.9	313.8	344.5	349.8	307.2	267.2	247.9	244.5
40°	1424.0	918.2	277.9	272.6	324.6	363.2	347.2	290.6	238.6	210.5	209.2
42.5°	1503.4	896.3	250.6	271.9	337.9	382.5	344.5	276.6	209.2	190.6	193.2
45°	1566.6	884.2	231.9	267.2	342.5	393.8	346.5	251.9	197.2	185.3	186.6
47.5°	1616.0	859.0	216.6	259.3	341.9	397.8	328.5	241.9	191.2	194.6	197.9
50°	1617.3	825.0	197.2	241.9	331.8	390.5	307.9	232.6	189.9	203.9	210.5
52.5°	1599.3	777.0	176.6	217.2	308.5	365.2	289.2	228.6	183.9	182.6	190.6
55°	1535.3	687.0	142.0	175.9	260.6	301.2	272.6	221.2	165.9	150.6	151.9
57.5°	1240.7	492.4	104.6	125.9	184.6	220.6	245.9	217.9	149.2	127.9	128.6
60°	768.4	279.2	76.7	86.0	113.9	134.0	199.3	202.6	133.3	108.0	106.6
62.5°	394.5	138.0	59.3	60.6	70.0	78.6	136.6	169.9	120.6	102.7	102.7
65°	131.9	68.0	52.0	46.7	46.7	48.6	82.6	117.9	101.9	86.0	86.0
67.5°	56.6	50.7	45.3	40.6	37.3	35.3	46.7	68.7	76.0	65.3	62.6
70°	44.0	42.7	39.3	34.0	29.3	26.6	27.3	35.3	43.3	42.0	40.6
72.5°	32.7	32.7	31.3	26.6	22.6	19.3	18.0	18.6	20.7	21.3	22.0
75°	22.6	23.3	23.3	20.7	16.7	14.0	12.0	10.0	8.0	6.7	6.0
77.5°	15.3	16.0	17.3	15.3	12.7	9.3	7.4	5.3	3.4	1.3	1.3
80°	13.3	15.3	16.7	15.3	13.3	10.0	7.4	4.0	2.0	0.0	0.0
82.5°	14.0	15.3	17.3	14.6	12.7	9.3	7.4	4.7	2.0	0.7	0.0
85°	3.4	3.4	4.0	4.7	6.0	6.7	5.3	3.4	2.0	0.7	0.0
87.5°	1.3	1.3	1.3	1.3	1.3	0.7	0.7	0.7	0.7	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)