

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: P527021

Luminaire Tested: **GALN-SA2A-730-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527021
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA2A-730-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5001 lumens
Efficiency: N/A
Efficacy: 79.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

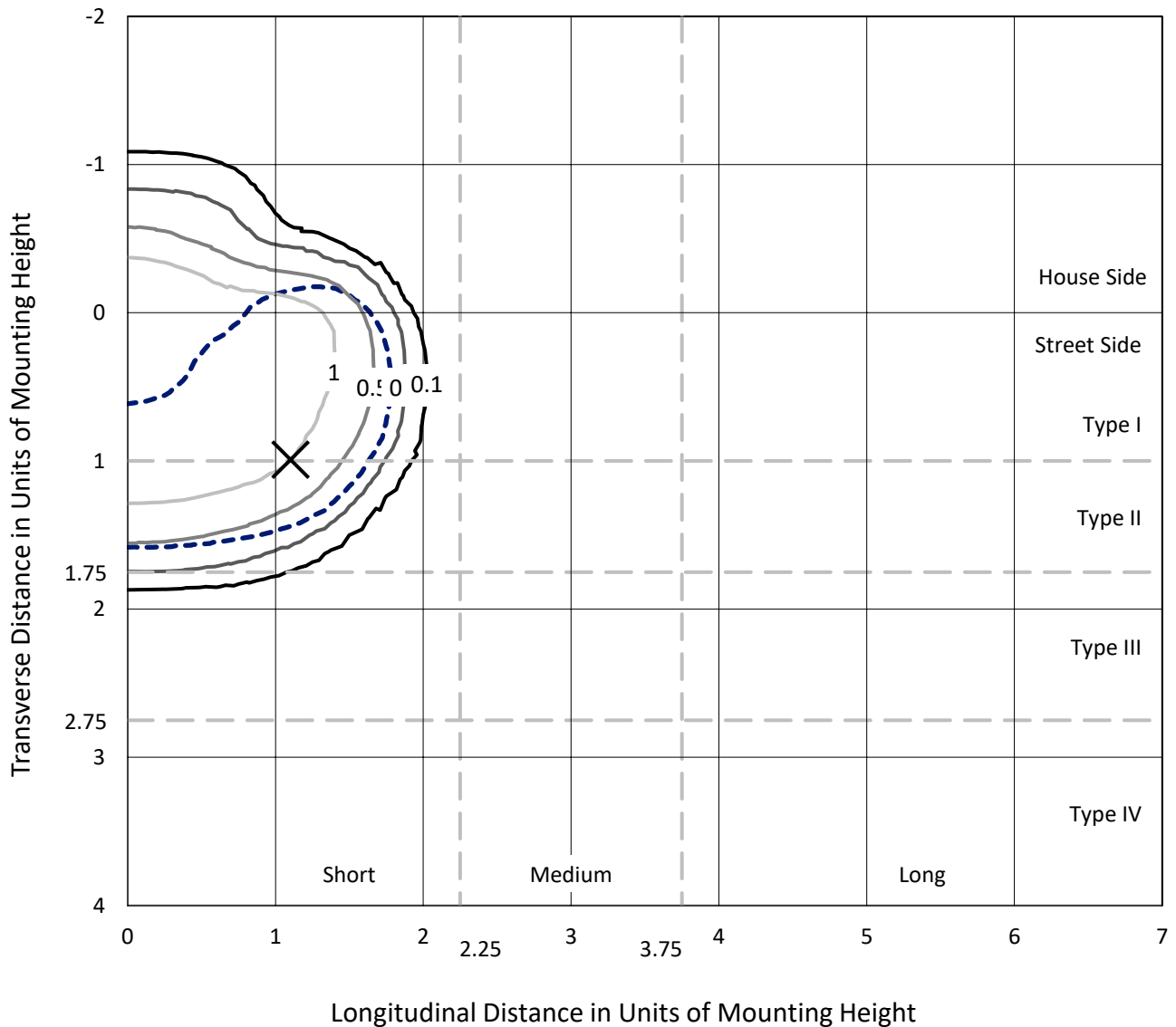
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

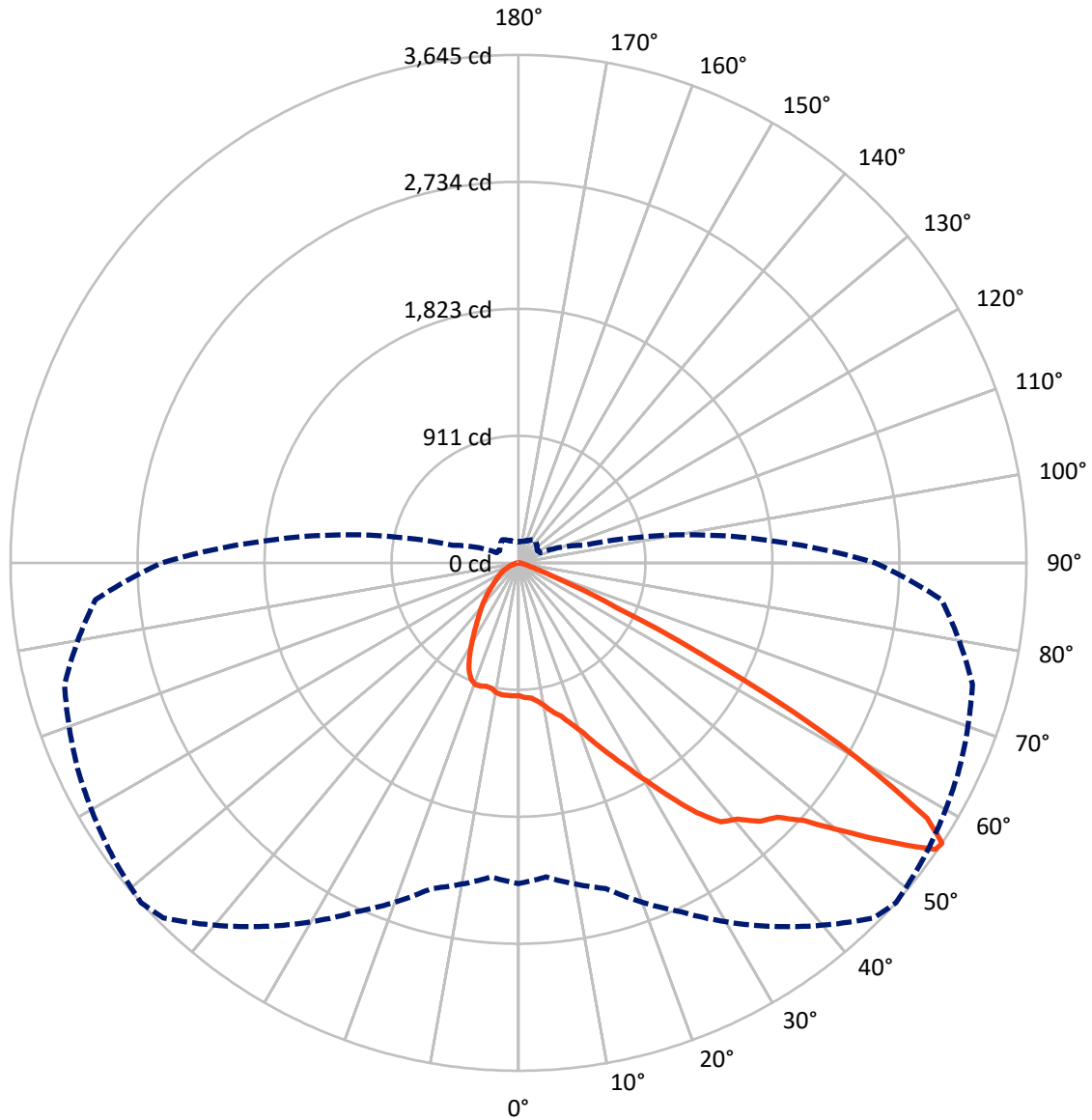
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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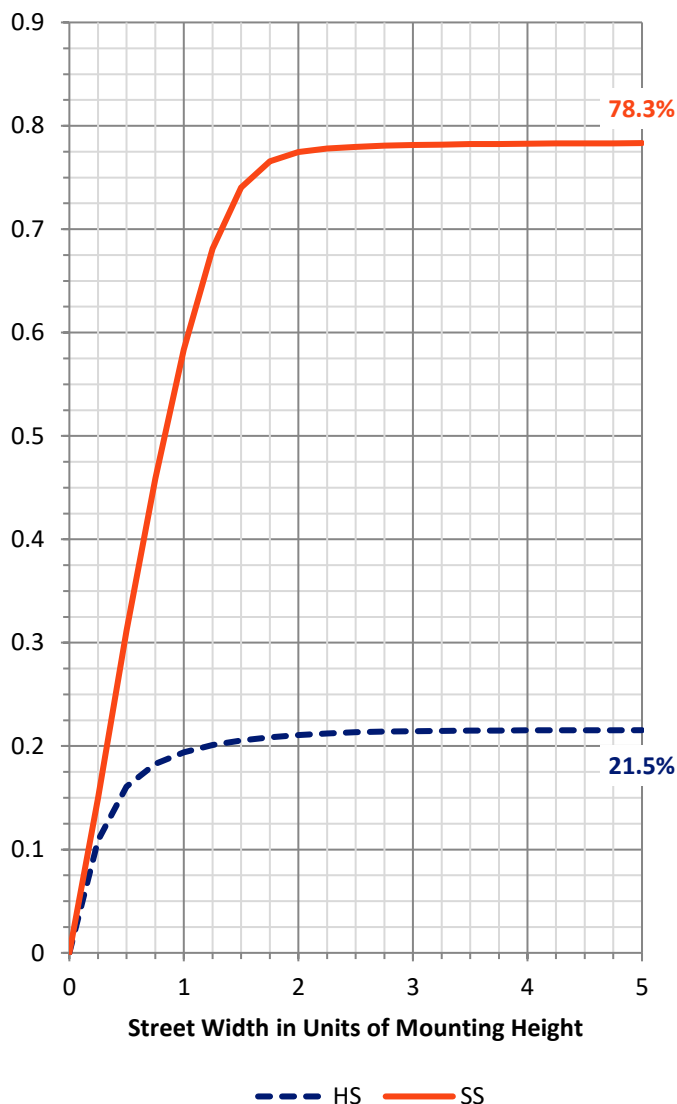
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1087.6	0.0	1087.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	3913.4	0.0	3913.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	5001.0	0.0	5001.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	1.9
10°-20°	297.4	5.9
20°-30°	539.4	10.8
30°-40°	847.2	16.9
40°-50°	1235.9	24.7
50°-60°	1489.1	29.8
60°-70°	436.0	8.7
70°-80°	55.3	1.1
80°-90°	7.8	0.2
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°	5001.0	100.0
0°-180°	5001.0	100.0

Coefficient of Utilization

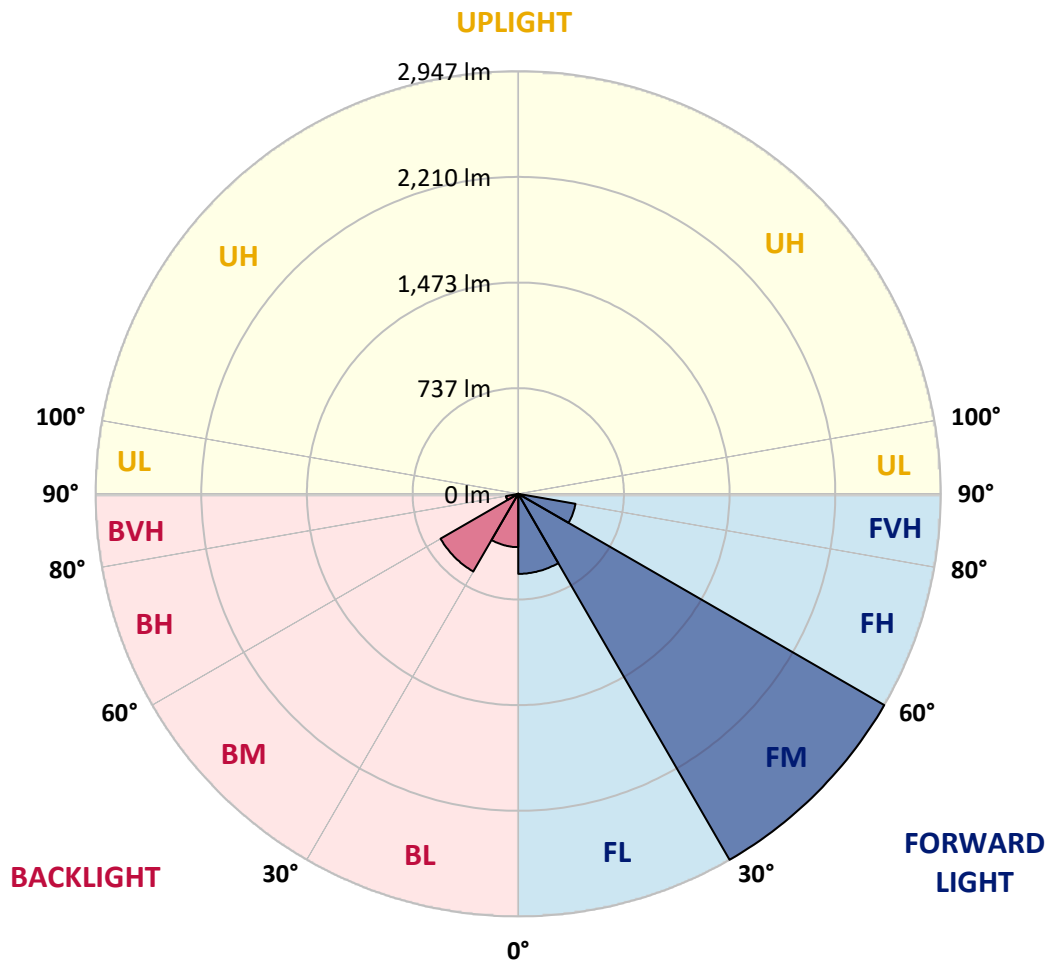


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	558.0	11.2			
FM (30°-60°)	2946.6	58.9			
FH (60°-80°)	404.9	8.1			G0/660
FVH (80°-90°)	3.9	0.1			G0/10
BL (0°-30°)	371.7	7.4	B1/500		
BM (30°-60°)	625.6	12.5	B1/1000		
BH (60°-80°)	86.4	1.7	B0/110		G0/110
BVH (80°-90°)	3.9	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°	48°	55°	65°	75°	85°
0°	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2
2.5°	972.5	967.9	967.9	960.7	968.9	965.2	967.9	958.8	967.9	954.3	965.2
5°	977.0	978.0	974.3	978.9	978.9	984.3	975.2	983.4	988.0	978.0	973.4
7.5°	1000.7	1002.5	1001.6	998.0	1005.3	1004.4	1003.5	997.1	998.9	995.3	989.8
10°	1047.2	1046.3	1050.8	1041.7	1036.2	1042.6	1044.4	1034.4	1027.1	1024.4	1007.1
12.5°	1114.5	1103.6	1097.2	1088.1	1090.9	1081.8	1098.2	1080.9	1077.2	1060.8	1043.5
15°	1169.2	1167.4	1168.3	1153.7	1137.3	1141.0	1141.0	1131.8	1126.4	1106.3	1081.8
17.5°	1281.2	1242.9	1251.1	1232.9	1219.3	1218.3	1210.2	1212.0	1197.4	1155.5	1118.2
20°	1368.6	1352.2	1339.5	1308.5	1287.6	1293.9	1290.3	1281.2	1276.6	1222.0	1169.2
22.5°	1446.9	1452.4	1431.4	1423.2	1394.1	1396.8	1404.1	1395.9	1361.3	1304.9	1226.5
25°	1557.1	1550.7	1522.5	1512.5	1485.1	1495.2	1523.4	1517.0	1495.2	1393.2	1271.2
27.5°	1687.3	1665.4	1670.9	1625.4	1599.0	1627.2	1660.9	1692.8	1630.8	1497.0	1324.0
30°	1779.3	1756.5	1754.7	1752.9	1746.5	1779.3	1818.4	1847.6	1797.5	1600.8	1411.4
32.5°	1824.8	1830.3	1845.7	1840.3	1895.8	1963.2	2004.2	2046.1	1983.2	1770.2	1527.0
35°	1945.9	1911.3	1945.9	1949.5	2006.9	2149.9	2201.8	2301.9	2286.5	2009.6	1668.2
37.5°	2016.9	2014.2	2018.7	2053.3	2108.9	2285.5	2359.3	2436.7	2407.6	2153.5	1843.9
40°	2134.4	2141.7	2140.8	2167.2	2228.2	2387.5	2417.6	2480.4	2483.1	2352.9	2102.5
42.5°	2322.9	2293.7	2274.6	2301.9	2387.5	2475.9	2536.0	2523.2	2613.4	2595.1	2434.9
45°	2492.2	2509.5	2481.3	2526.8	2557.8	2605.2	2603.3	2630.7	2745.4	2831.9	2685.3
47.5°	2650.7	2661.6	2675.3	2706.2	2773.6	2780.9	2765.4	2753.6	2912.0	3001.3	2879.2
50°	2745.4	2755.4	2819.1	2874.7	3000.3	3016.7	3025.8	2995.8	3103.2	3113.3	3062.3
52.5°	2719.9	2730.8	2820.1	3003.1	3203.4	3353.6	3326.3	3275.3	3269.0	3308.1	3231.6
55°	2494.1	2484.0	2607.0	2892.0	3267.1	3627.7	3631.4	3577.6	3474.8	3448.3	3206.1
56°	2301.9	2262.8	2419.4	2763.6	3185.2	3604.1	3645.0	3587.7	3491.1	3372.8	3048.6
57.5°	1885.8	1923.1	2078.8	2363.9	2902.0	3433.8	3457.5	3443.8	3370.9	3172.4	2682.6
60°	1039.9	1105.4	1242.9	1591.7	2066.1	2635.2	2654.3	2765.4	2779.1	2429.4	1845.7
62.5°	441.6	434.3	577.3	834.1	1176.5	1590.8	1626.3	1740.1	1761.1	1400.5	926.1
65°	179.4	189.4	261.3	419.8	621.9	724.8	774.9	812.2	881.4	578.2	341.5
67.5°	118.4	117.5	153.9	239.5	335.1	323.3	323.3	341.5	316.0	235.8	147.5
70°	84.7	87.4	110.2	165.7	208.5	154.8	148.4	142.0	161.2	155.7	119.3
72.5°	55.5	59.2	73.8	99.3	108.4	84.7	84.7	102.0	132.9	125.7	97.4
75°	36.4	37.3	45.5	57.4	53.7	43.7	48.3	68.3	96.5	92.9	69.2
77.5°	24.6	25.5	31.0	37.3	30.0	24.6	26.4	34.6	47.3	47.3	36.4
80°	9.1	10.0	12.7	11.8	13.7	17.3	19.1	23.7	28.2	28.2	24.6
82.5°	0.0	0.9	2.7	6.4	10.0	13.7	15.5	18.2	20.9	23.7	22.8
85°	0.0	0.9	2.7	4.6	7.3	8.2	9.1	6.4	5.5	5.5	4.6
87.5°	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	1.8	0.9	0.9
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°	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2	955.2
2.5°	955.2	954.3	954.3	951.6	957.0	954.3	956.1	955.2	943.4	952.5	946.1
5°	965.2	971.6	961.6	959.7	952.5	955.2	955.2	946.1	954.3	953.4	951.6
7.5°	990.7	979.8	968.9	957.9	956.1	953.4	943.4	939.7	946.1	938.8	949.7
10°	1001.6	1003.5	987.1	972.5	958.8	939.7	926.1	917.9	907.8	918.8	925.1
12.5°	1051.7	1033.5	1005.3	982.5	936.1	916.9	903.3	899.6	916.9	920.6	914.2
15°	1069.0	1066.3	1029.9	978.9	930.6	907.8	910.6	903.3	905.1	896.0	897.8
17.5°	1104.5	1073.6	1030.8	967.0	929.7	924.2	907.8	878.7	862.3	855.0	861.4
20°	1143.7	1113.6	1051.7	971.6	937.9	923.3	869.6	834.1	800.4	782.2	783.1
22.5°	1178.3	1141.0	1042.6	973.4	945.2	885.1	820.4	750.3	708.4	680.2	681.1
25°	1220.2	1167.4	1046.3	977.0	926.1	824.1	731.2	662.9	612.8	593.7	600.1
27.5°	1243.8	1183.7	1066.3	985.2	876.0	737.6	637.4	573.7	544.5	535.4	534.5
30°	1314.9	1220.2	1090.9	968.9	792.2	644.7	551.8	512.7	484.4	476.2	478.1
32.5°	1420.5	1286.6	1122.7	926.1	706.6	561.8	496.3	467.1	440.7	425.2	423.4
35°	1508.8	1400.5	1156.4	859.6	607.4	498.1	457.1	420.7	380.6	363.3	358.8
37.5°	1677.3	1528.9	1149.1	759.4	512.7	450.7	415.2	370.6	336.0	312.3	309.6
40°	1901.3	1679.1	1113.6	637.4	442.5	408.8	370.6	327.8	285.0	265.0	263.2
42.5°	2173.5	1863.0	1049.0	513.6	372.4	367.0	332.4	283.2	244.9	230.4	231.3
45°	2394.8	2020.6	983.4	412.5	320.5	326.0	295.9	249.5	223.1	211.3	211.3
47.5°	2591.5	2127.1	912.4	340.6	272.3	285.0	258.6	231.3	208.5	199.4	197.6
50°	2780.9	2235.5	841.4	275.9	232.2	244.9	242.2	220.4	202.1	191.2	192.1
52.5°	2899.3	2252.8	751.2	225.8	203.1	217.6	226.7	206.7	186.7	180.3	178.5
55°	2754.5	2029.7	582.8	185.8	172.1	191.2	208.5	185.8	170.3	159.4	158.4
56°	2559.6	1814.8	487.2	171.2	163.0	183.9	202.1	177.6	160.3	153.9	149.3
57.5°	2167.2	1485.1	359.7	152.1	151.2	171.2	192.1	169.4	149.3	143.9	143.9
60°	1351.3	835.9	217.6	127.5	131.1	152.1	173.0	151.2	132.9	132.9	135.7
62.5°	615.5	347.8	132.0	108.4	112.9	131.1	153.9	136.6	126.6	136.6	138.4
65°	209.4	150.2	95.6	86.5	89.2	108.4	132.0	138.4	137.5	143.9	147.5
67.5°	117.5	96.5	80.1	71.9	70.1	80.1	108.4	138.4	132.9	130.2	132.0
70°	99.3	82.0	71.0	63.7	61.0	64.7	83.8	104.7	93.8	91.1	89.2
72.5°	80.1	68.3	61.9	57.4	49.2	41.9	38.2	40.1	44.6	47.3	51.9
75°	56.5	51.9	51.9	46.4	35.5	26.4	20.9	17.3	11.8	8.2	9.1
77.5°	31.9	31.9	32.8	28.2	22.8	17.3	12.7	9.1	4.6	1.8	0.9
80°	21.9	23.7	25.5	22.8	19.1	15.5	10.9	6.4	2.7	0.0	0.0
82.5°	21.9	24.6	26.4	22.8	19.1	14.6	10.9	6.4	2.7	0.9	0.0
85°	4.6	5.5	6.4	7.3	10.9	10.9	8.2	5.5	2.7	0.9	0.0
87.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	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)