

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: P647791

Luminaire Tested: **GALN-SA2A-835-U-T3-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P647791
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-835-U-T3-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3500K, 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: 4300.2 lumens
Efficiency: N/A
Efficacy: 68.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G0

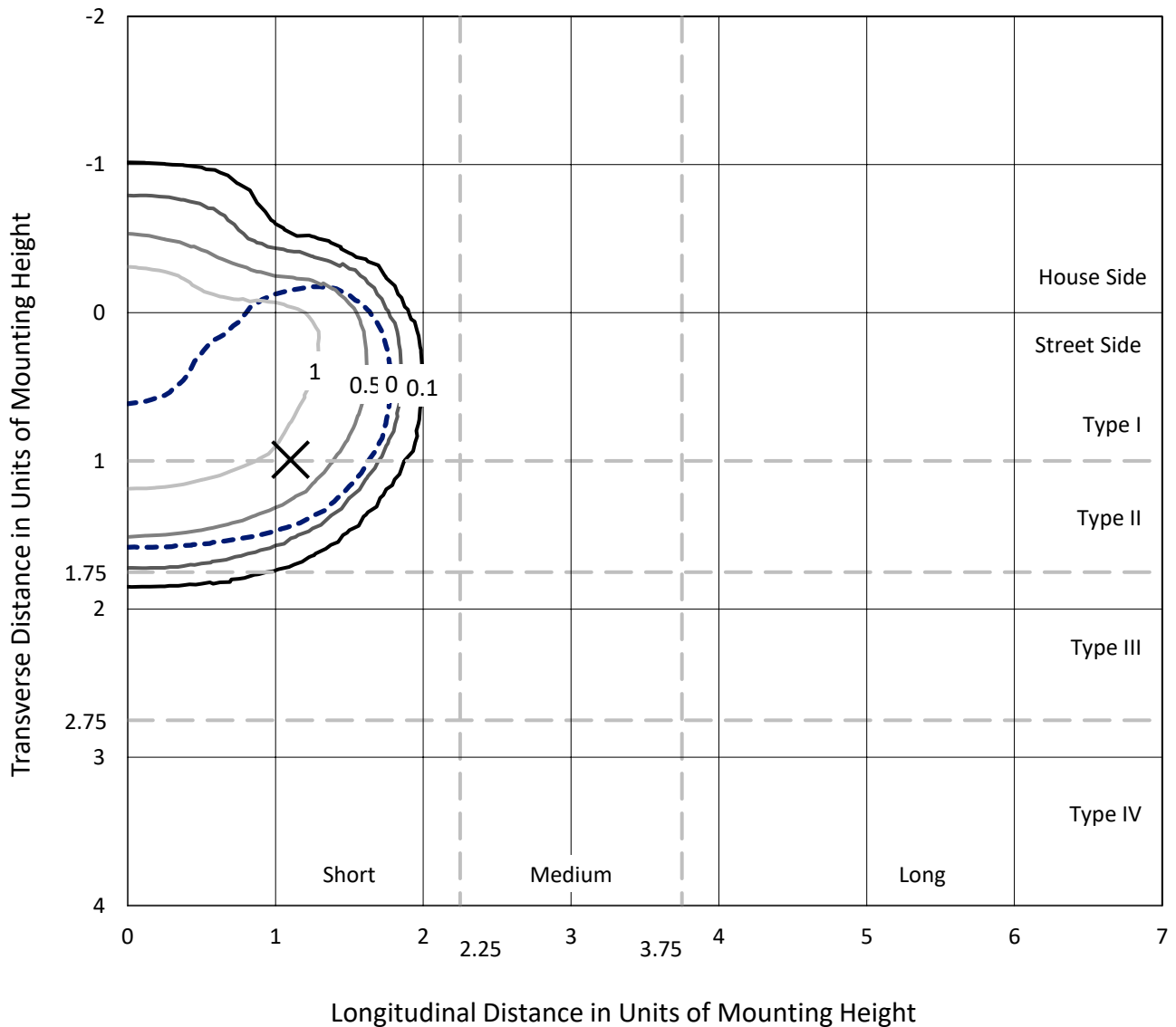
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

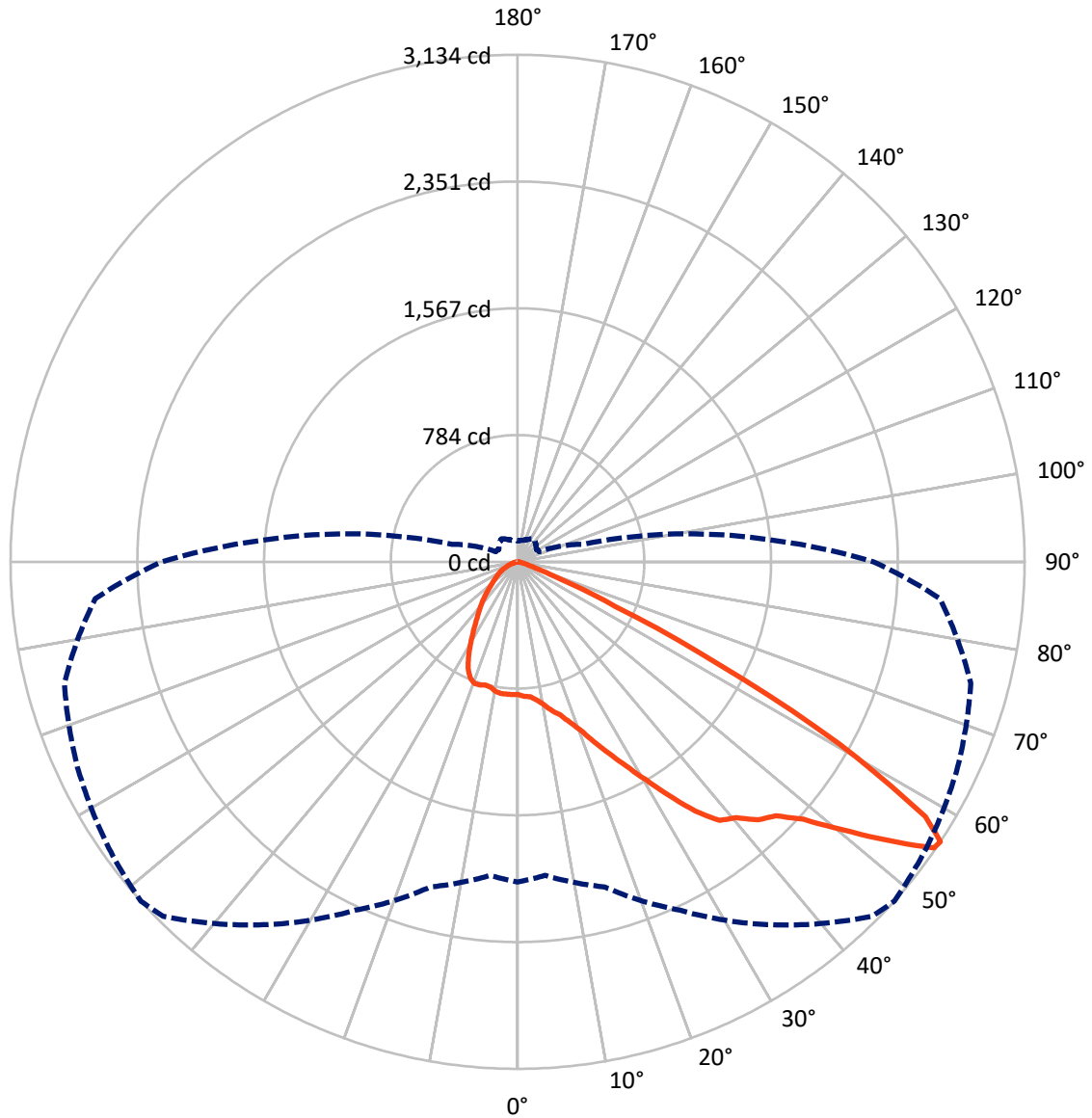
✕ Max cd
 - - - 1/2 Max cd



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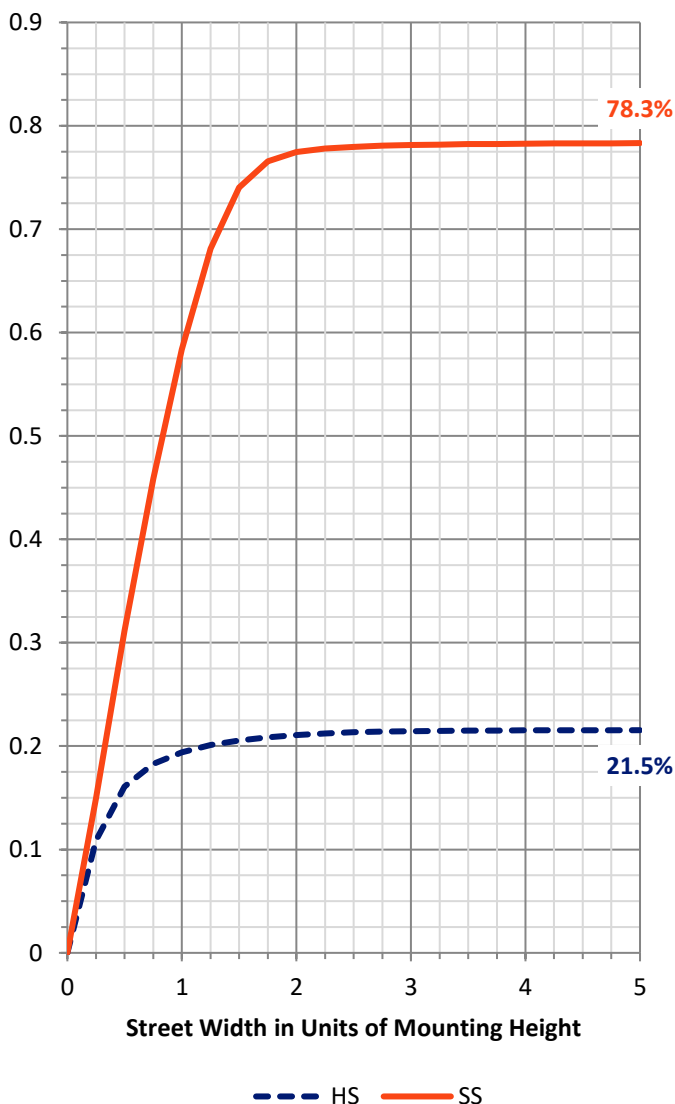
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	935.2	0.0	935.2
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	3365.0	0.0	3365.0
	% Fixture	78.3	0.0	78.3
Total	Lumens	4300.2	0.0	4300.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	1.9
10°-20°	255.7	5.9
20°-30°	463.8	10.8
30°-40°	728.5	16.9
40°-50°	1062.7	24.7
50°-60°	1280.4	29.8
60°-70°	374.9	8.7
70°-80°	47.6	1.1
80°-90°	6.7	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°	4300.2	100.0
0°-180°	4300.2	100.0

Coefficient of Utilization

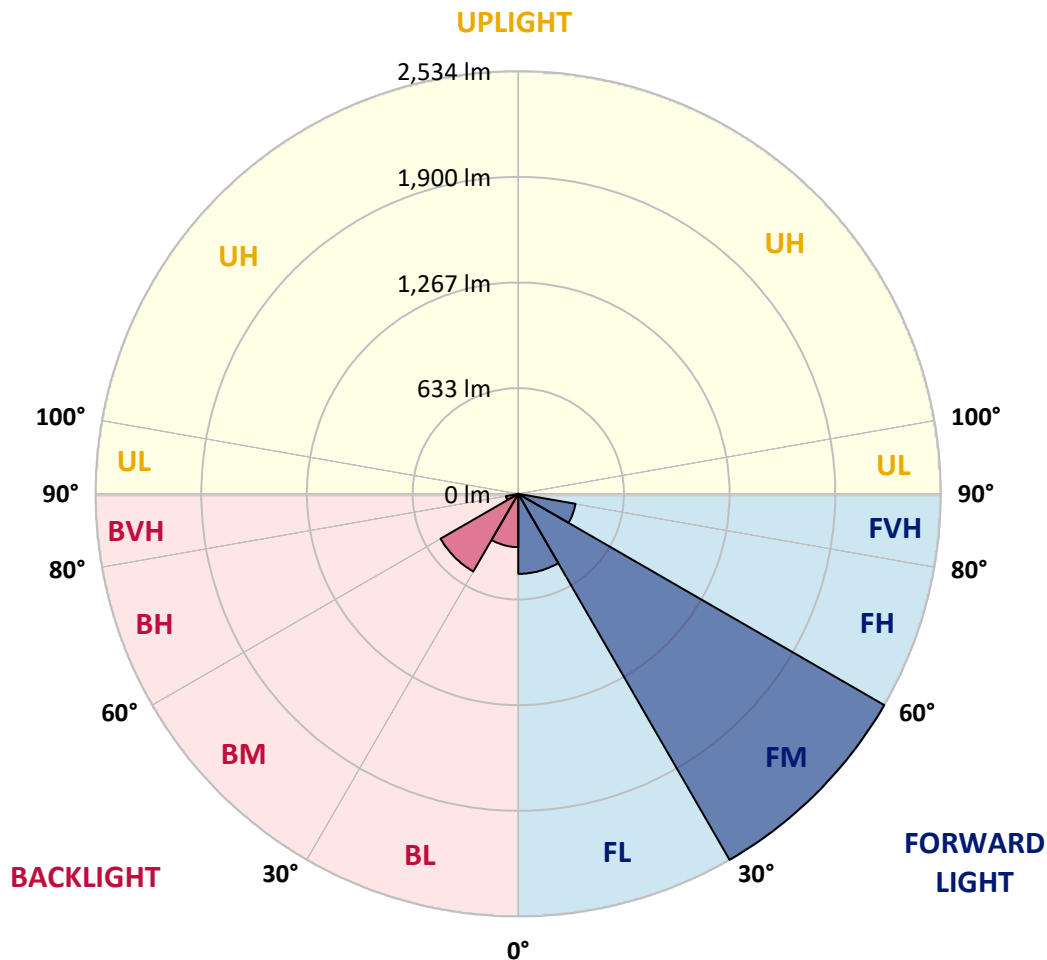


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	479.8	11.2			
FM (30°-60°)	2533.7	58.9			
FH (60°-80°)	348.1	8.1			G0/660
FVH (80°-90°)	3.4	0.1			G0/10
BL (0°-30°)	319.7	7.4	B1/500		
BM (30°-60°)	537.9	12.5	B1/1000		
BH (60°-80°)	74.3	1.7	B0/110		G0/110
BVH (80°-90°)	3.3	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°	821.4	821.4	821.4	821.4	821.4	821.4	821.4	821.4	821.4	821.4	821.4
2.5°	836.2	832.3	832.3	826.1	833.1	830.0	832.3	824.5	832.3	820.6	830.0
5°	840.2	840.9	837.8	841.7	841.7	846.4	838.6	845.6	849.6	840.9	837.0
7.5°	860.5	862.1	861.3	858.2	864.4	863.6	862.9	857.4	859.0	855.8	851.1
10°	900.4	899.7	903.6	895.8	891.1	896.5	898.1	889.5	883.2	880.9	866.0
12.5°	958.4	949.0	943.5	935.7	938.0	930.2	944.3	929.4	926.3	912.2	897.3
15°	1005.4	1003.8	1004.6	992.1	978.0	981.1	981.1	973.3	968.6	951.3	930.2
17.5°	1101.7	1068.8	1075.8	1060.2	1048.4	1047.7	1040.6	1042.2	1029.6	993.6	961.5
20°	1176.8	1162.8	1151.8	1125.2	1107.2	1112.6	1109.5	1101.7	1097.8	1050.8	1005.4
22.5°	1244.2	1248.9	1230.9	1223.8	1198.8	1201.1	1207.4	1200.3	1170.6	1122.0	1054.7
25°	1338.9	1333.4	1309.2	1300.6	1277.1	1285.7	1310.0	1304.5	1285.7	1198.0	1093.1
27.5°	1450.9	1432.1	1436.8	1397.7	1374.9	1399.2	1428.2	1455.6	1402.4	1287.3	1138.5
30°	1530.0	1510.4	1508.8	1507.3	1501.8	1530.0	1563.7	1588.7	1545.6	1376.5	1213.6
32.5°	1569.1	1573.8	1587.1	1582.4	1630.1	1688.1	1723.3	1759.3	1705.3	1522.2	1313.1
35°	1673.2	1643.4	1673.2	1676.3	1725.7	1848.6	1893.2	1979.3	1966.0	1728.0	1434.5
37.5°	1734.3	1731.9	1735.8	1765.6	1813.3	1965.3	2028.7	2095.2	2070.2	1851.7	1585.6
40°	1835.3	1841.5	1840.8	1863.5	1915.9	2052.9	2078.8	2132.8	2135.2	2023.2	1807.9
42.5°	1997.4	1972.3	1955.9	1979.3	2052.9	2128.9	2180.6	2169.6	2247.1	2231.5	2093.7
45°	2143.0	2157.9	2133.6	2172.7	2199.4	2240.1	2238.5	2262.0	2360.7	2435.1	2309.0
47.5°	2279.2	2288.6	2300.4	2327.0	2384.9	2391.2	2377.9	2367.7	2504.0	2580.7	2475.8
50°	2360.7	2369.3	2424.1	2471.9	2579.9	2594.0	2601.8	2576.0	2668.4	2677.0	2633.2
52.5°	2338.7	2348.1	2424.9	2582.3	2754.5	2883.7	2860.2	2816.4	2810.9	2844.6	2778.8
55°	2144.6	2135.9	2241.7	2486.7	2809.3	3119.4	3122.5	3076.3	2987.8	2965.1	2756.9
56°	1979.3	1945.7	2080.4	2376.3	2738.9	3099.0	3134.3	3084.9	3001.9	2900.2	2621.4
57.5°	1621.5	1653.6	1787.5	2032.6	2495.3	2952.6	2973.0	2961.2	2898.6	2727.9	2306.6
60°	894.2	950.6	1068.8	1368.7	1776.5	2265.9	2282.4	2377.9	2389.6	2089.0	1587.1
62.5°	379.8	373.5	496.4	717.2	1011.6	1367.9	1398.4	1496.3	1514.3	1204.3	796.3
65°	154.3	162.9	224.7	361.0	534.8	623.3	666.3	698.4	757.9	497.2	293.6
67.5°	101.8	101.0	132.3	205.9	288.1	278.0	278.0	293.6	271.7	202.8	126.8
70°	72.8	75.2	94.7	142.5	179.3	133.1	127.6	122.1	138.6	133.9	102.6
72.5°	47.8	50.9	63.4	85.3	93.2	72.8	72.8	87.7	114.3	108.1	83.8
75°	31.3	32.1	39.2	49.3	46.2	37.6	41.5	58.7	83.0	79.9	59.5
77.5°	21.1	21.9	26.6	32.1	25.8	21.1	22.7	29.8	40.7	40.7	31.3
80°	7.8	8.6	11.0	10.2	11.7	14.9	16.4	20.4	24.3	24.3	21.1
82.5°	0.0	0.8	2.3	5.5	8.6	11.7	13.3	15.7	18.0	20.4	19.6
85°	0.0	0.8	2.3	3.9	6.3	7.0	7.8	5.5	4.7	4.7	3.9
87.5°	0.0	0.0	0.8	0.8	0.8	0.8	0.8	0.8	1.6	0.8	0.8
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°	821.4	821.4	821.4	821.4	821.4	821.4	821.4	821.4	821.4	821.4	821.4
2.5°	821.4	820.6	820.6	818.2	822.9	820.6	822.2	821.4	811.2	819.0	813.5
5°	830.0	835.5	826.8	825.3	819.0	821.4	821.4	813.5	820.6	819.8	818.2
7.5°	851.9	842.5	833.1	823.7	822.2	819.8	811.2	808.1	813.5	807.3	816.7
10°	861.3	862.9	848.8	836.2	824.5	808.1	796.3	789.3	780.7	790.0	795.5
12.5°	904.4	888.7	864.4	844.9	804.9	788.5	776.7	773.6	788.5	791.6	786.1
15°	919.2	916.9	885.6	841.7	800.2	780.7	783.0	776.7	778.3	770.5	772.0
17.5°	949.8	923.2	886.4	831.5	799.4	794.7	780.7	755.6	741.5	735.2	740.7
20°	983.4	957.6	904.4	835.5	806.5	794.0	747.8	717.2	688.3	672.6	673.4
22.5°	1013.2	981.1	896.5	837.0	812.8	761.1	705.5	645.2	609.2	584.9	585.7
25°	1049.2	1003.8	899.7	840.2	796.3	708.6	628.7	570.0	527.0	510.5	516.0
27.5°	1069.6	1017.9	916.9	847.2	753.2	634.2	548.1	493.3	468.2	460.4	459.6
30°	1130.7	1049.2	938.0	833.1	681.2	554.4	474.5	440.8	416.6	409.5	411.1
32.5°	1221.5	1106.4	965.4	796.3	607.6	483.1	426.7	401.7	379.0	365.7	364.1
35°	1297.4	1204.3	994.4	739.2	522.3	428.3	393.1	361.7	327.3	312.4	308.5
37.5°	1442.3	1314.7	988.1	653.0	440.8	387.6	357.0	318.7	288.9	268.6	266.2
40°	1634.8	1443.9	957.6	548.1	380.5	351.6	318.7	281.9	245.1	227.9	226.3
42.5°	1868.9	1602.0	902.0	441.6	320.2	315.5	285.8	243.5	210.6	198.1	198.9
45°	2059.2	1737.4	845.6	354.7	275.6	280.3	254.5	214.5	191.8	181.7	181.7
47.5°	2228.3	1829.0	784.6	292.8	234.1	245.1	222.4	198.9	179.3	171.5	169.9
50°	2391.2	1922.2	723.5	237.2	199.7	210.6	208.3	189.5	173.8	164.4	165.2
52.5°	2493.0	1937.1	646.0	194.2	174.6	187.1	195.0	177.7	160.5	155.0	153.5
55°	2368.5	1745.2	501.1	159.7	148.0	164.4	179.3	159.7	146.4	137.0	136.2
56°	2200.9	1560.5	418.9	147.2	140.2	158.2	173.8	152.7	137.8	132.3	128.4
57.5°	1863.5	1277.1	309.3	130.8	130.0	147.2	165.2	145.6	128.4	123.7	123.7
60°	1162.0	718.8	187.1	109.6	112.8	130.8	148.8	130.0	114.3	114.3	116.7
62.5°	529.3	299.1	113.5	93.2	97.1	112.8	132.3	117.4	108.8	117.4	119.0
65°	180.1	129.2	82.2	74.4	76.7	93.2	113.5	119.0	118.2	123.7	126.8
67.5°	101.0	83.0	68.9	61.9	60.3	68.9	93.2	119.0	114.3	112.0	113.5
70°	85.3	70.5	61.1	54.8	52.5	55.6	72.0	90.0	80.6	78.3	76.7
72.5°	68.9	58.7	53.2	49.3	42.3	36.0	32.9	34.5	38.4	40.7	44.6
75°	48.5	44.6	44.6	39.9	30.5	22.7	18.0	14.9	10.2	7.0	7.8
77.5°	27.4	27.4	28.2	24.3	19.6	14.9	11.0	7.8	3.9	1.6	0.8
80°	18.8	20.4	21.9	19.6	16.4	13.3	9.4	5.5	2.3	0.0	0.0
82.5°	18.8	21.1	22.7	19.6	16.4	12.5	9.4	5.5	2.3	0.8	0.0
85°	3.9	4.7	5.5	6.3	9.4	9.4	7.0	4.7	2.3	0.8	0.0
87.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	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)