

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: P450529

Luminaire Tested: **GALN-SA1B-750-U-T2R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450529  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-6)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA1B-750-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5868 lumens  
Efficiency: N/A  
Efficacy: 133.4 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

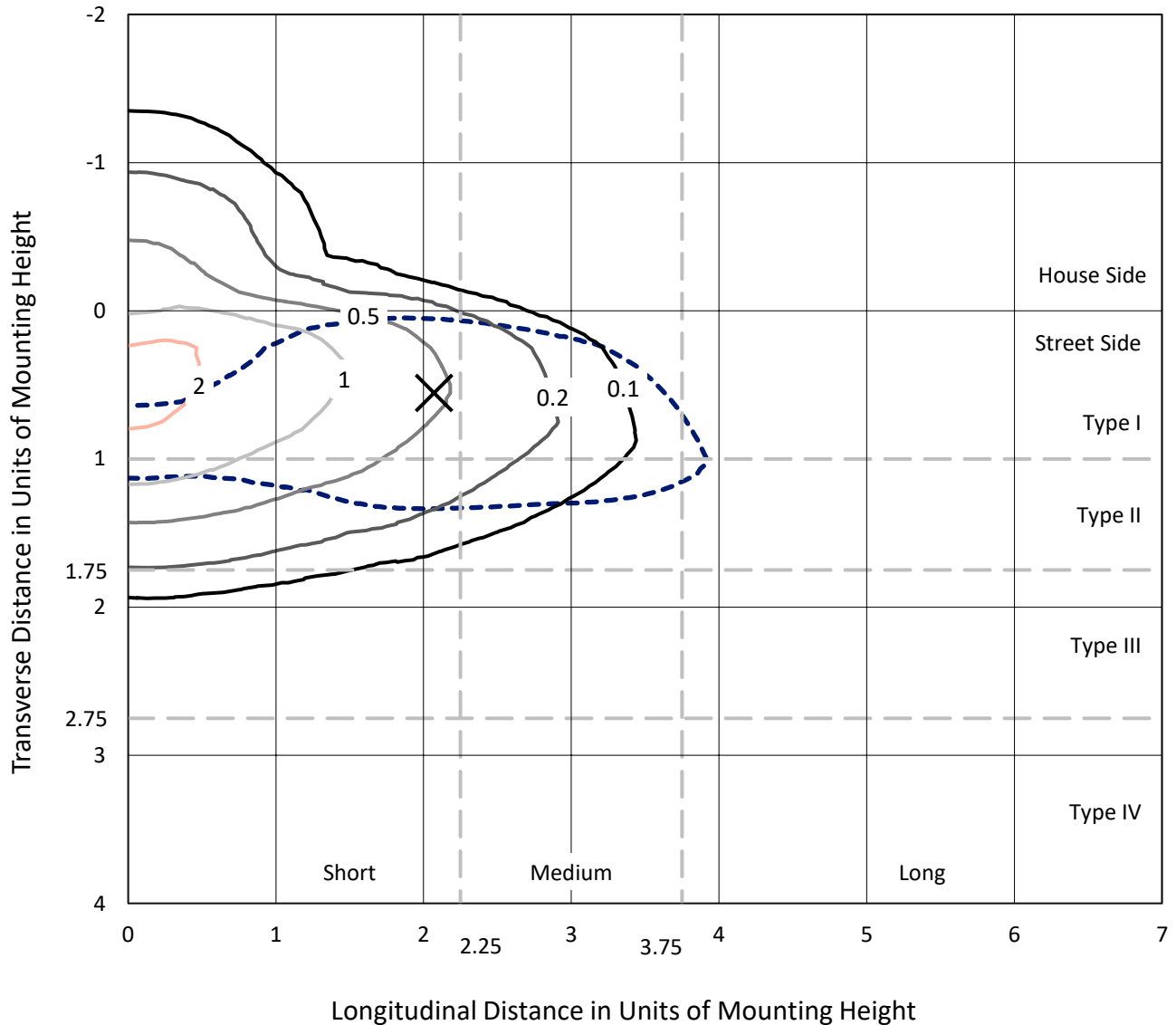
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

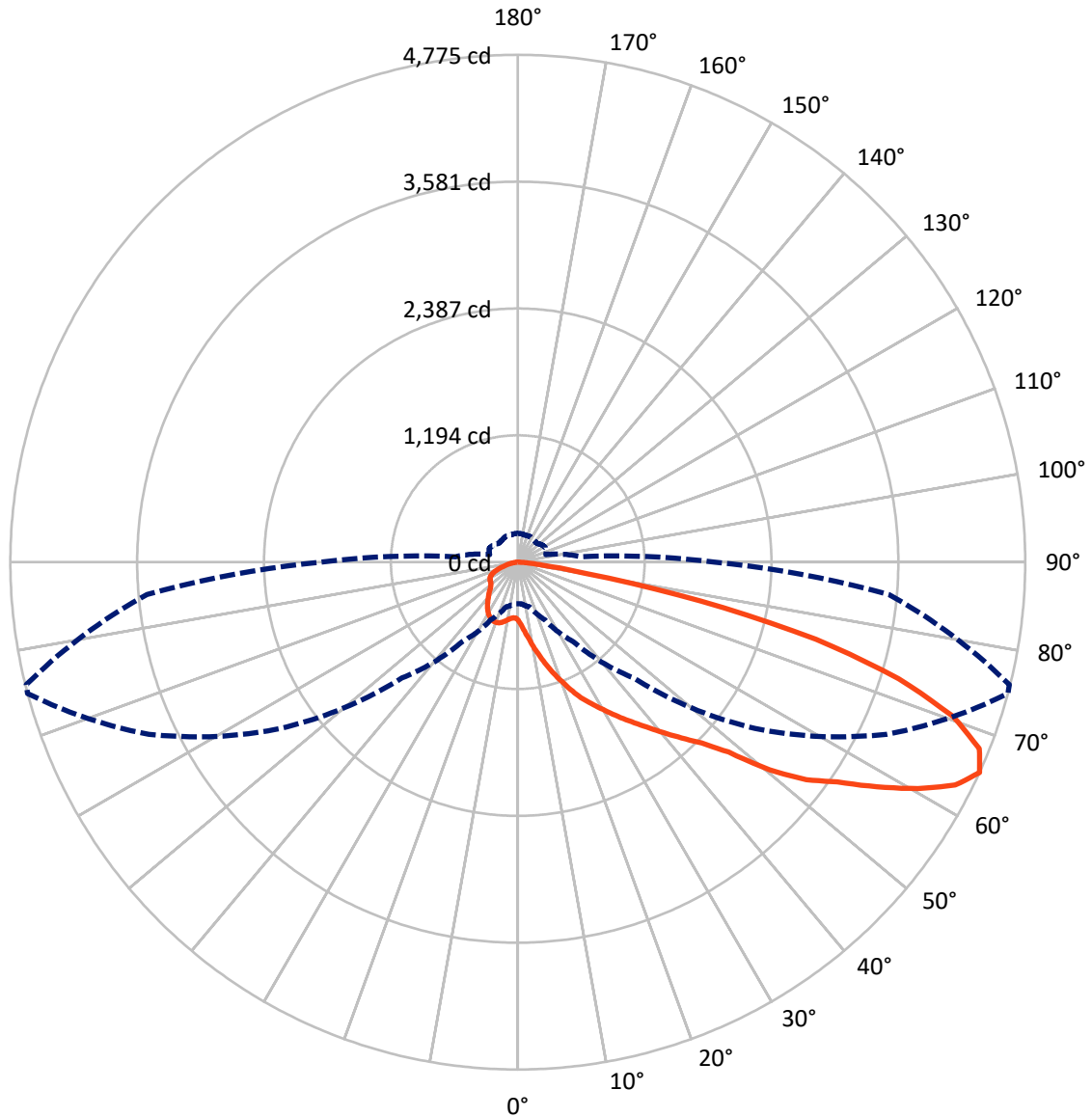
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 65-Deg Vertical



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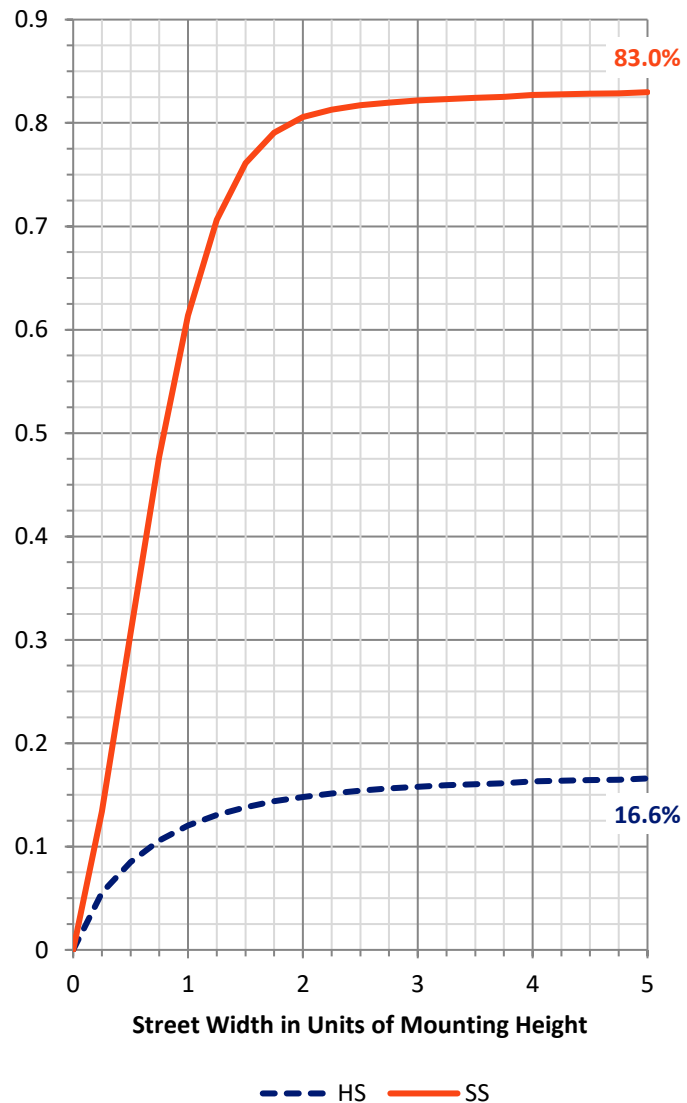
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	986.5	0.0	986.5
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	4881.5	0.0	4881.5
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	5868.0	0.0	5868.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	66.2	1.1
10°-20°	259.5	4.4
20°-30°	501.2	8.5
30°-40°	814.1	13.9
40°-50°	1119.8	19.1
50°-60°	1322.1	22.5
60°-70°	1158.4	19.7
70°-80°	553.0	9.4
80°-90°	73.6	1.3
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°	5868.0	100.0
0°-180°	5868.0	100.0



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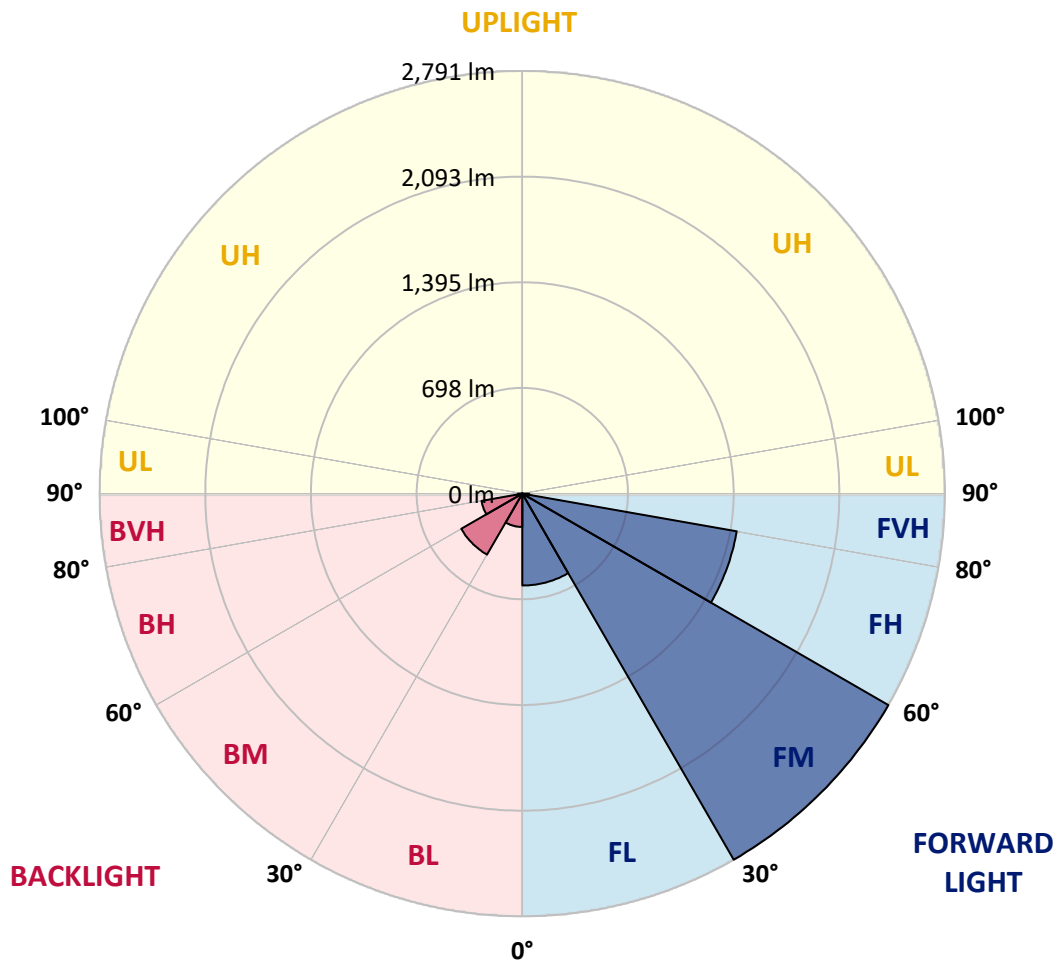
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	606.7	10.3			
FM (30°-60°)	2790.9	47.6			
FH (60°-80°)	1437.9	24.5			G1/1800
FVH (80°-90°)	46.0	0.8			G1/100
BL (0°-30°)	220.2	3.8	B1/500		
BM (30°-60°)	465.1	7.9	B1/1000		
BH (60°-80°)	273.5	4.7	B1/500		G1/500
BVH (80°-90°)	27.6	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2
2.5°	724.4	719.6	714.5	700.5	685.6	668.7	644.5	621.3	590.4	589.5	566.5
5°	925.2	922.1	899.5	886.4	851.7	805.6	766.4	705.6	649.3	642.6	598.0
7.5°	1109.8	1097.4	1088.8	1065.3	1030.9	971.7	896.0	813.8	719.6	710.7	636.9
10°	1248.9	1247.7	1243.2	1222.8	1197.0	1138.2	1054.1	936.4	808.7	791.2	684.0
12.5°	1353.0	1354.0	1353.3	1353.0	1334.5	1284.6	1193.5	1069.4	898.8	886.4	738.4
15°	1421.4	1431.0	1434.8	1450.7	1452.3	1418.9	1340.6	1198.0	1000.3	981.9	797.0
17.5°	1466.6	1471.4	1489.2	1516.3	1538.2	1532.2	1462.5	1317.0	1104.1	1073.2	857.8
20°	1509.9	1518.2	1531.9	1568.8	1607.6	1625.4	1576.4	1438.9	1206.9	1187.2	924.9
22.5°	1600.0	1611.8	1616.5	1635.3	1668.4	1699.9	1677.6	1555.7	1319.6	1292.8	996.2
25°	1752.4	1764.9	1751.5	1747.0	1757.9	1773.4	1768.7	1665.9	1425.9	1387.7	1063.7
27.5°	1951.0	1952.6	1926.5	1901.7	1875.0	1867.0	1852.4	1763.6	1518.2	1486.4	1131.5
30°	2164.3	2156.7	2113.4	2068.5	2023.3	1978.7	1936.7	1857.8	1621.0	1584.4	1198.0
32.5°	2362.3	2358.1	2310.1	2240.4	2164.0	2122.0	2037.0	1953.0	1731.1	1695.8	1266.4
35°	2510.6	2516.6	2463.8	2387.7	2304.3	2267.1	2159.8	2052.9	1845.1	1806.5	1340.9
37.5°	2615.9	2612.7	2566.0	2500.1	2426.9	2394.4	2303.4	2162.1	1967.6	1930.7	1422.4
40°	2653.5	2651.6	2616.9	2568.8	2522.4	2510.9	2453.6	2279.8	2108.0	2064.7	1520.4
42.5°	2629.6	2633.8	2610.8	2597.8	2589.2	2597.5	2602.9	2434.2	2261.1	2221.3	1626.7
45°	2556.4	2554.2	2551.0	2572.3	2620.7	2675.1	2750.6	2580.0	2427.5	2395.7	1769.3
47.5°	2425.6	2441.5	2449.5	2508.4	2614.0	2742.9	2920.5	2775.4	2669.1	2641.4	1986.7
50°	2242.6	2255.3	2302.4	2407.1	2564.7	2768.4	3086.7	3094.9	3072.0	3020.1	2222.9
52.5°	1956.8	1976.5	2073.6	2265.5	2463.5	2757.9	3187.2	3369.0	3399.2	3360.4	2455.5
55°	1636.9	1664.6	1767.1	2018.8	2324.1	2700.6	3256.6	3527.8	3648.4	3612.5	2679.6
57.5°	1323.7	1353.0	1458.4	1702.2	2080.9	2573.9	3302.1	3704.8	3987.7	3940.9	2958.4
60°	992.1	1022.6	1113.0	1364.1	1734.6	2326.3	3271.3	3858.2	4326.7	4306.6	3237.5
62.5°	640.1	673.8	752.4	960.2	1333.3	1988.0	3106.1	3942.8	4620.1	4595.9	3441.2
65°	389.9	393.7	437.0	596.1	912.5	1539.2	2728.3	3830.5	4774.8	4767.5	3503.3
67.5°	252.1	258.1	277.9	357.1	547.1	1069.1	2181.5	3459.7	4684.4	4681.9	3375.0
70°	212.9	214.8	223.7	240.9	318.0	648.3	1531.9	2868.6	4341.0	4341.0	3066.6
72.5°	190.3	192.9	196.1	201.5	226.9	367.3	914.1	2233.0	3748.0	3772.9	2610.2
75°	172.8	172.2	174.1	175.1	193.5	240.0	472.6	1651.5	2899.5	2849.9	1890.3
77.5°	148.0	149.0	148.0	152.1	170.9	182.7	240.0	1108.2	1757.2	1692.9	948.8
80°	121.6	123.2	124.8	127.3	146.1	138.8	144.2	505.1	649.9	636.2	293.1
82.5°	91.3	93.6	96.1	102.2	114.9	91.7	91.0	215.8	234.6	214.8	107.9
85°	36.9	43.6	65.9	71.9	72.2	50.3	56.0	90.1	95.8	93.6	42.3
87.5°	8.6	10.2	21.3	32.1	29.6	18.8	20.7	29.3	33.4	30.9	14.3
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°	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2	545.2
2.5°	556.0	544.9	525.8	511.2	500.7	491.4	485.7	482.2	480.9	480.6	480.9
5°	574.8	555.1	524.8	505.7	495.2	489.2	485.7	485.4	485.7	486.0	485.1
7.5°	600.6	572.3	532.8	515.0	507.0	502.6	501.0	500.3	500.7	500.3	500.3
10°	635.0	596.1	548.4	529.9	523.3	518.2	515.6	514.0	512.7	511.5	510.8
12.5°	672.8	622.6	565.3	547.4	537.9	529.9	524.2	520.1	517.2	514.3	513.7
15°	715.2	650.6	584.0	559.2	545.5	533.8	523.9	517.2	512.1	508.0	507.7
17.5°	755.6	677.0	596.8	564.6	544.6	528.0	515.0	505.7	499.4	494.0	493.3
20°	798.9	702.1	602.5	561.1	535.0	515.0	497.8	486.6	479.3	473.3	472.3
22.5°	842.5	723.4	601.9	550.0	518.5	494.9	476.8	465.0	456.4	450.4	448.1
25°	884.2	740.6	593.9	532.2	495.6	471.1	452.6	441.8	434.1	426.8	426.8
27.5°	921.7	750.8	578.9	510.5	472.0	446.2	431.6	421.7	414.7	409.9	407.1
30°	958.7	755.6	558.6	483.1	447.2	425.2	413.4	407.7	401.3	395.9	395.3
32.5°	991.8	754.6	533.1	456.4	423.6	408.0	403.3	398.8	392.1	384.5	382.6
35°	1023.9	748.3	502.9	427.1	403.9	397.8	399.1	392.8	380.7	371.1	369.5
37.5°	1058.9	736.8	469.8	403.3	387.3	393.1	396.3	382.3	362.5	347.6	344.1
40°	1099.3	723.8	435.4	379.4	374.3	388.6	388.6	362.8	335.8	326.6	324.0
42.5°	1146.8	712.9	406.8	359.3	363.5	377.8	376.2	337.1	325.9	321.1	319.9
45°	1221.9	709.1	377.2	341.8	354.6	365.1	352.0	328.1	321.8	318.0	316.7
47.5°	1340.6	713.6	351.1	328.8	344.4	352.3	325.0	322.1	317.6	312.2	311.6
50°	1450.7	709.4	332.6	321.5	335.5	337.1	313.8	314.8	312.2	306.2	304.9
52.5°	1540.8	696.4	320.8	317.6	327.8	310.3	303.3	306.8	305.9	298.2	297.0
55°	1639.8	688.4	315.1	317.6	322.7	287.1	293.5	298.5	297.3	291.9	291.5
57.5°	1759.8	690.0	311.0	318.6	317.6	275.3	283.6	289.6	289.3	287.7	287.7
60°	1882.6	690.7	304.6	318.3	311.6	266.1	273.4	282.0	282.6	283.6	283.6
62.5°	1923.4	663.0	292.2	312.5	298.2	257.2	263.9	275.6	275.0	277.5	277.9
65°	1847.3	586.3	273.7	299.5	281.0	250.8	256.5	267.4	263.9	270.5	271.8
67.5°	1681.5	485.1	245.1	275.9	261.9	244.1	251.8	255.9	249.5	262.6	262.9
70°	1453.3	378.8	208.8	242.5	240.3	237.1	247.9	241.6	232.7	248.6	245.4
72.5°	1215.2	289.3	166.8	198.3	211.3	226.6	241.3	223.1	210.7	215.5	209.7
75°	912.8	213.9	134.0	155.3	176.0	211.7	235.2	200.8	181.7	177.3	176.0
77.5°	465.3	139.7	100.3	116.2	132.1	191.3	226.9	174.7	150.5	143.5	140.4
80°	166.1	86.9	70.7	80.2	89.1	164.6	198.3	144.5	116.8	115.5	116.8
82.5°	77.0	56.0	47.4	52.5	52.8	109.8	151.2	107.9	88.8	135.0	113.9
85°	33.1	28.0	26.7	26.1	24.2	49.0	85.0	57.9	90.4	40.4	37.2
87.5°	9.9	11.1	9.9	7.3	5.4	5.4	8.6	3.2	2.2	1.6	1.6
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)