

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: P526341

Luminaire Tested: **GALN-SA1B-735-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P526341
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-735-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II OPTICS WITH
BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3164 lumens
Efficiency: N/A
Efficacy: 71.9 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

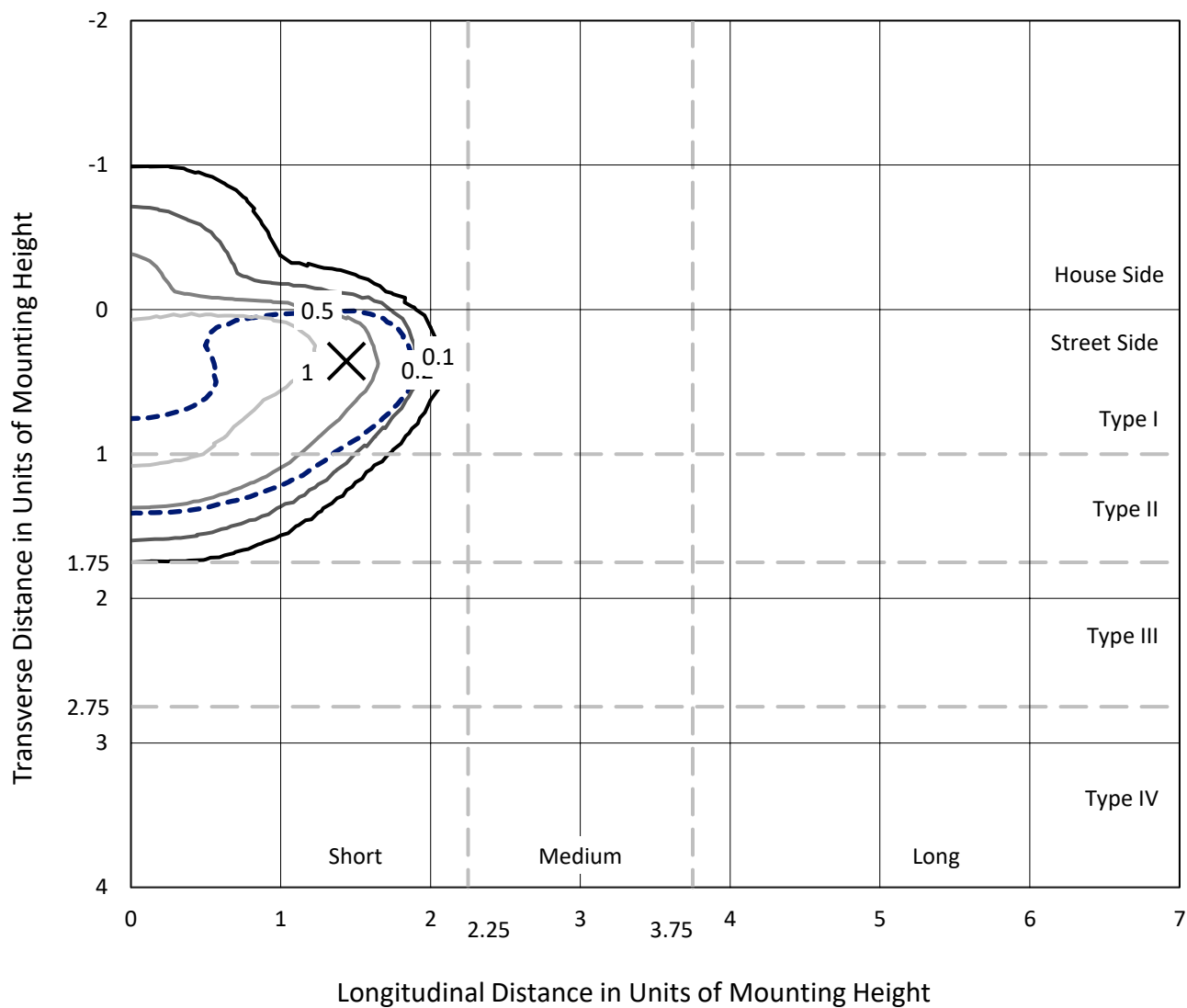
Input Watts (W): 44
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

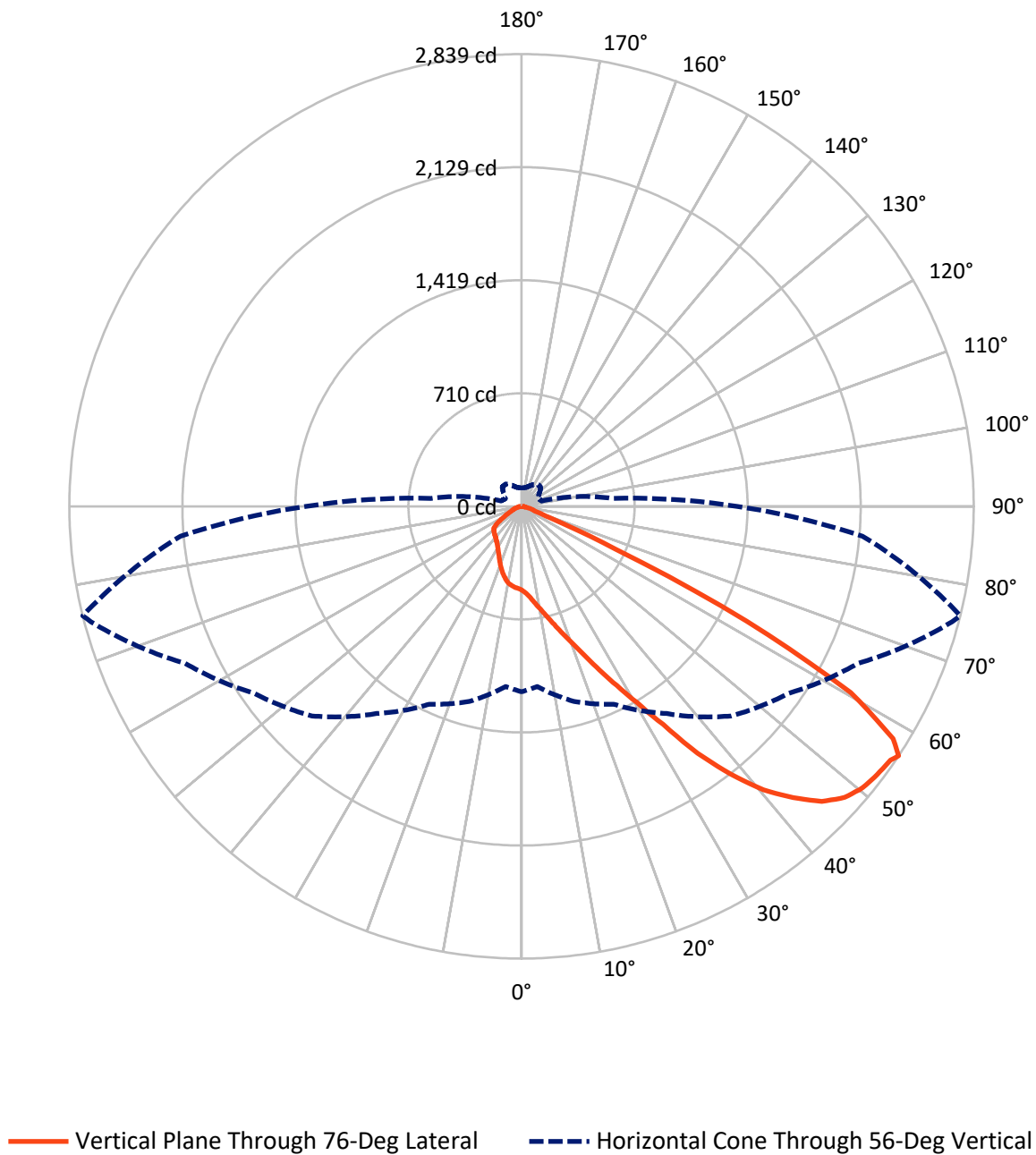
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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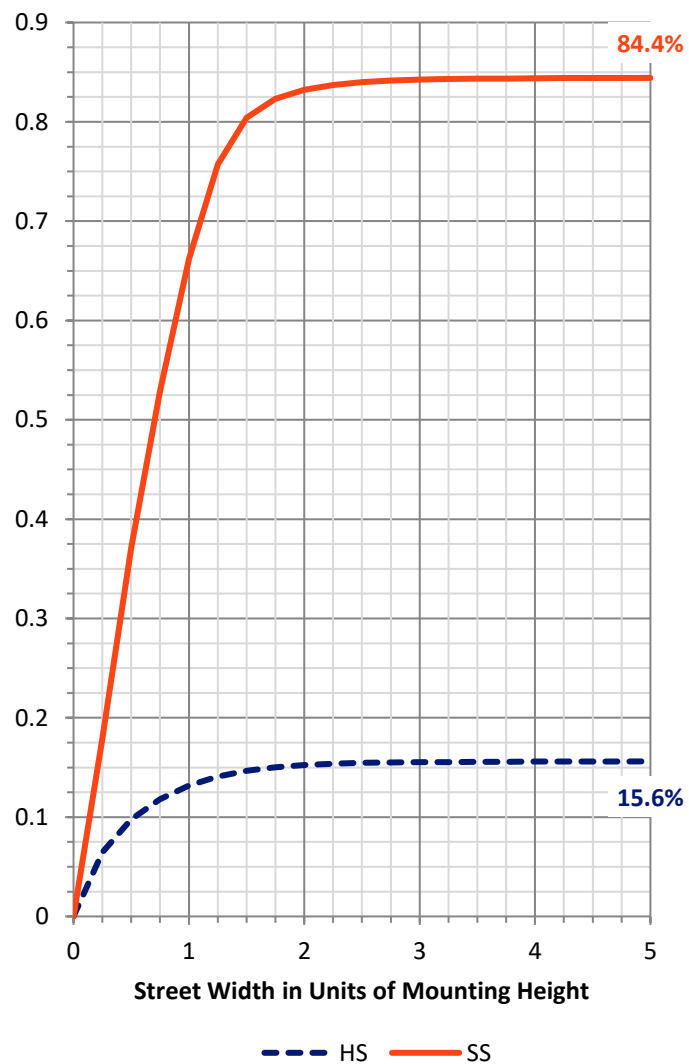
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	497.0	0.0	497.0
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	2667.0	0.0	2667.0
	% Fixture	84.3	0.0	84.3
Total	Lumens	3164.0	0.0	3164.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	53.1	1.7
10°-20°	170.4	5.4
20°-30°	309.1	9.8
30°-40°	533.0	16.8
40°-50°	865.8	27.4
50°-60°	912.6	28.8
60°-70°	278.8	8.8
70°-80°	35.7	1.1
80°-90°	5.4	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°	3164.0	100.0
0°-180°	3164.0	100.0

Coefficient of Utilization



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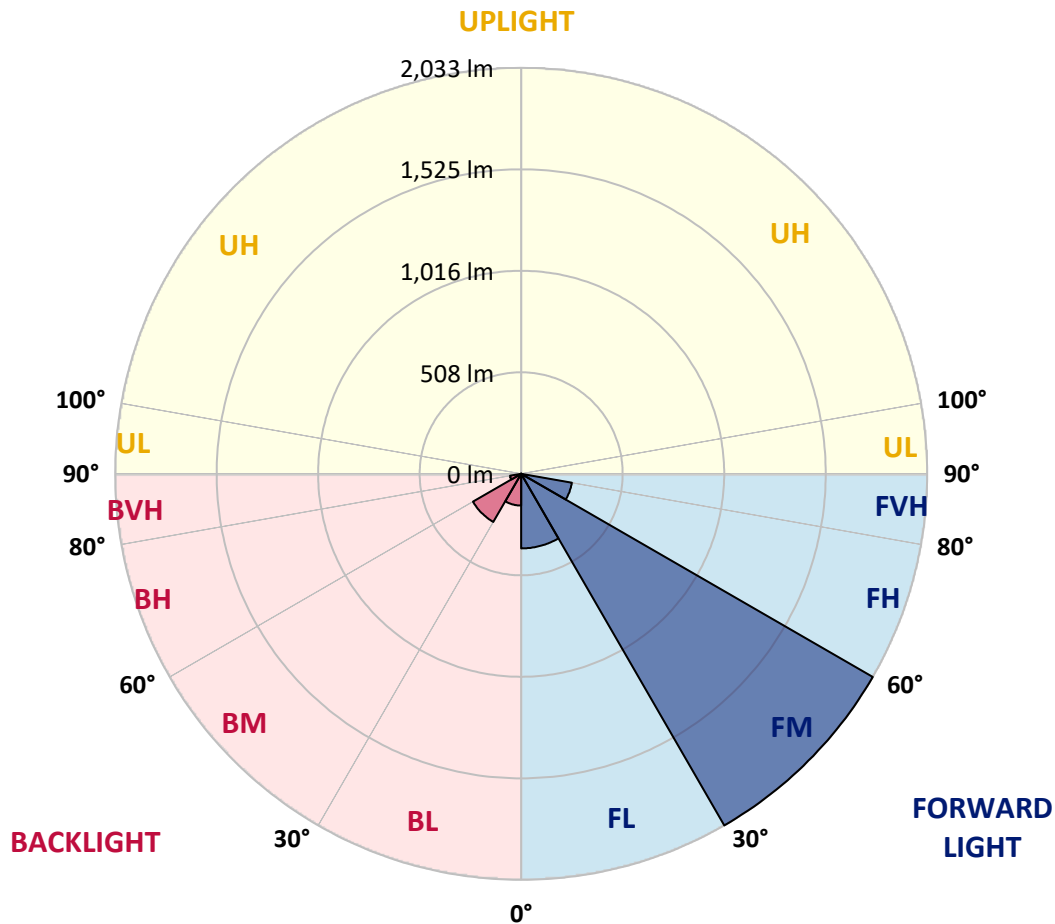
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	373.5	11.8			
FM	(30°-60°)	2032.9	64.2			
FH	(60°-80°)	257.9	8.2			G0/660
FVH	(80°-90°)	2.7	0.1			G0/10
BL	(0°-30°)	159.0	5.0	B1/500		
BM	(30°-60°)	278.6	8.8	B1/1000		
BH	(60°-80°)	56.7	1.8	B0/110		G0/110
BVH	(80°-90°)	2.8	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°	76°	85°
0°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7
2.5°	606.6	592.6	593.1	592.0	590.2	583.8	564.6	561.6	548.8	545.3	533.7
5°	679.5	667.2	674.2	663.7	653.8	648.0	616.5	601.9	581.5	573.9	557.6
7.5°	724.9	719.1	716.8	717.4	708.0	693.5	679.5	647.4	620.0	614.1	579.7
10°	747.1	743.6	747.1	745.4	749.4	751.2	726.7	707.5	667.2	657.3	603.6
12.5°	752.4	759.4	762.3	769.9	779.8	796.7	794.9	768.7	715.0	708.6	640.4
15°	765.2	771.0	768.1	780.4	799.0	827.6	842.8	838.7	780.9	769.3	683.0
17.5°	776.9	766.4	776.3	800.8	819.4	863.2	899.9	916.8	852.7	839.3	722.0
20°	792.6	789.7	787.9	800.2	833.4	891.8	964.7	995.6	933.2	919.2	778.0
22.5°	840.4	841.0	839.8	821.8	845.7	911.6	1021.2	1097.6	1029.4	1017.7	841.6
25°	903.4	895.8	890.0	875.4	872.5	929.7	1078.4	1222.4	1144.9	1136.7	910.4
27.5°	969.9	969.9	952.4	939.0	920.3	974.6	1130.9	1343.8	1284.3	1273.2	970.5
30°	1042.2	1046.3	1044.0	1015.4	1003.7	1023.6	1184.5	1498.9	1444.1	1430.1	1069.6
32.5°	1149.0	1140.2	1150.1	1126.2	1091.8	1109.3	1269.1	1637.7	1651.7	1631.9	1199.7
35°	1290.1	1284.8	1278.4	1239.4	1198.5	1212.5	1388.7	1808.6	1912.4	1902.5	1330.9
37.5°	1416.7	1413.7	1408.5	1381.7	1334.4	1351.3	1524.6	1986.5	2166.7	2134.0	1516.4
40°	1549.6	1565.4	1548.5	1524.6	1481.4	1518.7	1684.4	2092.0	2380.7	2341.1	1658.1
42.5°	1729.8	1717.6	1725.2	1681.4	1658.1	1698.9	1844.7	2197.6	2546.9	2499.7	1808.6
45°	1921.7	1922.3	1901.9	1887.9	1827.2	1871.6	1943.3	2255.9	2679.3	2642.6	1922.3
47.5°	2044.8	2044.2	2066.4	2088.5	2026.1	1982.4	2010.4	2311.3	2747.6	2730.7	1963.7
50°	2025.5	2031.4	2060.0	2142.8	2175.4	2116.5	2073.4	2295.0	2778.5	2776.7	1999.3
52.5°	1761.9	1781.2	1829.0	1948.6	2113.0	2185.9	2139.3	2325.3	2793.6	2796.6	2052.4
55°	1341.4	1351.9	1442.9	1588.1	1770.1	2019.7	2113.0	2349.2	2805.3	2810.6	2116.5
56°	1163.5	1135.5	1266.8	1370.0	1587.5	1860.5	2046.5	2330.6	2798.3	2838.6	2148.6
57.5°	878.3	859.7	965.8	1094.7	1304.1	1592.2	1840.1	2242.5	2751.1	2750.5	2102.5
60°	534.2	515.6	597.2	673.0	790.3	980.4	1243.4	1785.8	2325.9	2374.9	1702.4
62.5°	317.9	329.5	410.0	456.1	494.0	513.8	643.3	1061.5	1552.0	1587.0	1056.2
65°	211.7	215.8	276.4	352.3	369.2	293.9	261.9	429.8	673.0	651.5	435.7
67.5°	130.6	140.0	185.5	264.8	293.4	214.6	124.2	160.4	185.5	185.5	126.0
70°	79.3	84.0	123.6	180.2	201.2	138.2	90.4	90.4	89.2	87.5	75.2
72.5°	37.9	40.8	63.0	92.7	94.5	72.9	70.0	76.4	74.7	74.1	62.4
75°	16.3	17.5	22.2	29.2	33.2	30.9	42.6	54.8	56.6	54.8	44.9
77.5°	5.2	5.8	8.2	10.5	11.1	13.4	18.1	22.7	26.2	24.5	22.2
80°	0.6	1.2	2.3	5.2	8.2	10.5	13.4	15.2	16.9	16.9	15.7
82.5°	0.6	0.6	2.3	4.7	7.6	9.9	12.8	14.6	16.9	17.5	16.3
85°	0.0	0.6	1.7	4.1	6.4	6.4	5.8	5.8	4.1	4.1	4.1
87.5°	0.0	0.0	0.6	0.6	0.6	1.2	1.2	1.2	1.2	1.2	1.2
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°	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7	526.7
2.5°	531.3	530.2	514.4	504.5	499.2	488.7	482.3	477.7	474.2	470.1	470.7
5°	538.3	534.2	508.0	489.9	468.3	456.7	446.8	438.6	433.3	432.2	429.8
7.5°	558.1	536.6	496.9	464.2	436.8	425.2	416.4	411.2	413.5	408.3	412.3
10°	573.3	541.2	483.5	436.3	408.8	400.1	395.4	399.5	405.3	403.0	400.1
12.5°	592.0	545.9	461.9	409.4	383.8	377.3	385.5	393.1	404.8	409.4	403.6
15°	613.0	551.1	434.5	378.5	362.2	367.4	381.4	394.8	406.5	412.3	415.8
17.5°	638.6	549.4	407.7	354.0	341.8	356.9	373.8	386.1	403.6	412.3	410.0
20°	662.5	543.6	377.9	329.5	330.1	344.1	358.1	377.9	387.3	398.9	394.8
22.5°	685.3	533.1	347.0	312.6	312.6	334.2	341.2	354.0	362.2	368.0	367.4
25°	717.4	513.2	321.4	296.3	303.3	317.3	323.1	327.2	323.7	328.4	328.9
27.5°	740.1	492.8	300.4	281.7	294.5	305.0	303.3	300.9	292.8	286.4	290.4
30°	764.6	468.9	282.3	271.8	278.8	288.1	281.1	274.1	261.3	250.8	251.4
32.5°	799.6	457.8	266.5	260.1	269.5	270.6	263.0	252.5	239.7	229.8	229.2
35°	864.9	450.8	253.1	252.5	254.3	254.9	247.3	234.5	229.2	221.0	224.0
37.5°	930.2	447.3	243.8	241.5	240.9	241.5	232.7	220.5	230.4	229.8	231.0
40°	1013.6	463.1	230.4	227.5	228.0	228.0	217.0	213.5	231.0	232.7	233.3
42.5°	1098.2	482.9	221.6	212.3	214.6	214.6	208.8	204.7	217.0	205.3	203.5
45°	1171.7	512.1	212.3	197.1	203.0	205.9	204.1	197.1	189.5	169.7	169.7
47.5°	1195.6	537.7	201.2	182.5	187.2	200.0	194.8	180.2	166.8	150.5	149.3
50°	1237.6	565.7	192.5	165.6	175.6	191.3	186.0	171.5	156.3	144.6	145.2
52.5°	1280.8	597.8	176.1	145.8	158.1	184.3	184.3	168.0	144.6	136.5	135.3
55°	1345.5	596.6	147.0	119.6	141.1	173.8	176.7	150.5	129.5	123.1	123.1
56°	1354.8	569.8	132.4	112.0	133.6	170.9	171.5	145.8	123.6	116.6	116.6
57.5°	1284.8	514.4	116.1	102.6	124.2	165.6	166.2	141.7	119.0	109.1	107.9
60°	988.6	348.2	96.8	91.6	112.6	149.3	152.2	128.9	104.4	96.8	96.2
62.5°	558.1	193.0	85.2	82.8	96.8	127.1	135.9	112.6	88.7	84.6	85.7
65°	254.9	106.1	71.7	67.1	78.2	98.0	109.6	92.7	72.9	68.2	68.2
67.5°	93.3	72.3	61.2	53.1	54.8	63.6	71.2	60.1	48.4	41.4	43.2
70°	66.5	60.7	53.7	46.1	42.6	41.4	40.8	33.8	23.9	18.7	19.8
72.5°	53.7	50.2	44.9	39.1	33.2	28.0	23.9	17.5	11.1	7.6	7.0
75°	38.5	36.7	32.7	28.0	23.3	19.8	16.3	11.1	5.8	2.9	2.9
77.5°	19.8	19.8	19.2	17.5	14.6	11.7	9.3	6.4	3.5	1.2	1.2
80°	15.2	16.3	16.9	15.2	13.4	10.5	7.6	4.7	2.3	0.6	0.6
82.5°	14.6	16.9	18.1	15.7	13.4	9.9	7.6	4.7	2.3	0.6	0.6
85°	3.5	3.5	5.2	5.8	7.6	8.2	6.4	4.1	1.7	0.6	0.6
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	0.6	0.6	0.6	0.6	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)