

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: P944889

Luminaire Tested: **GALN-SB1A-730-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944889
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB1A-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III ROADWAY
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3736 lumens
Efficiency: N/A
Efficacy: 120.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G1

Input Watts (W): 30.9
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

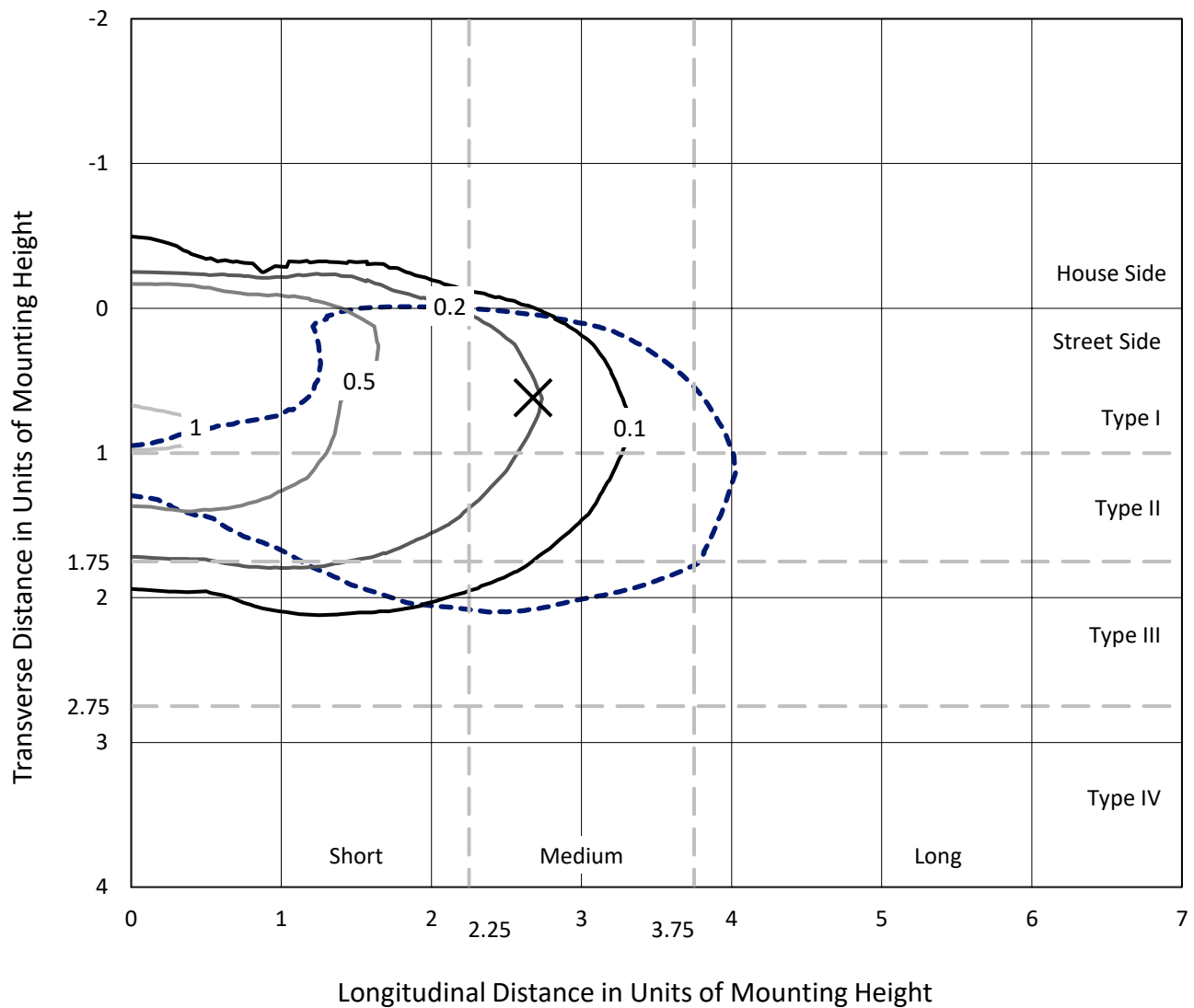


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Iso-Footcandle Lines of Horizontal Illumination

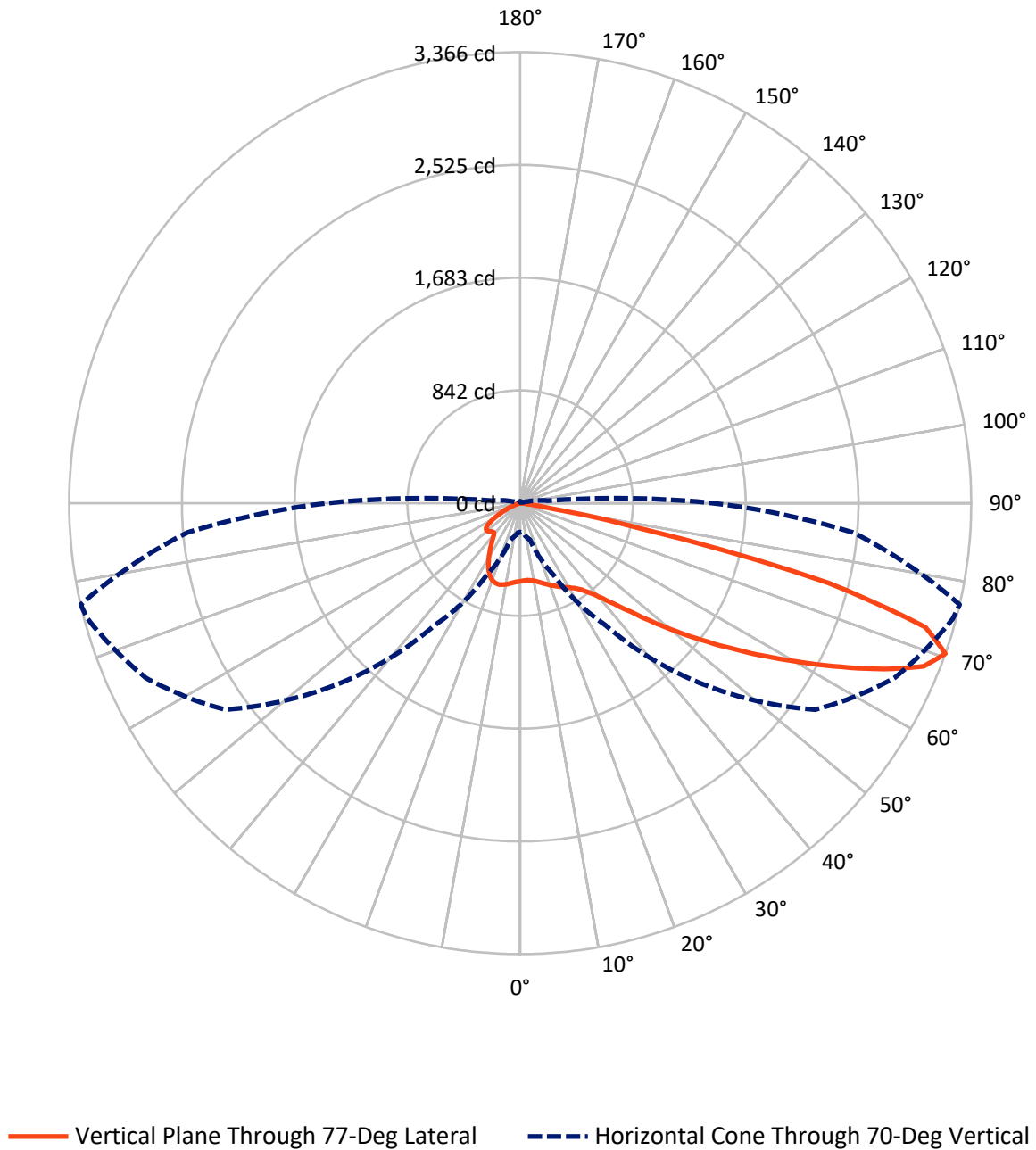
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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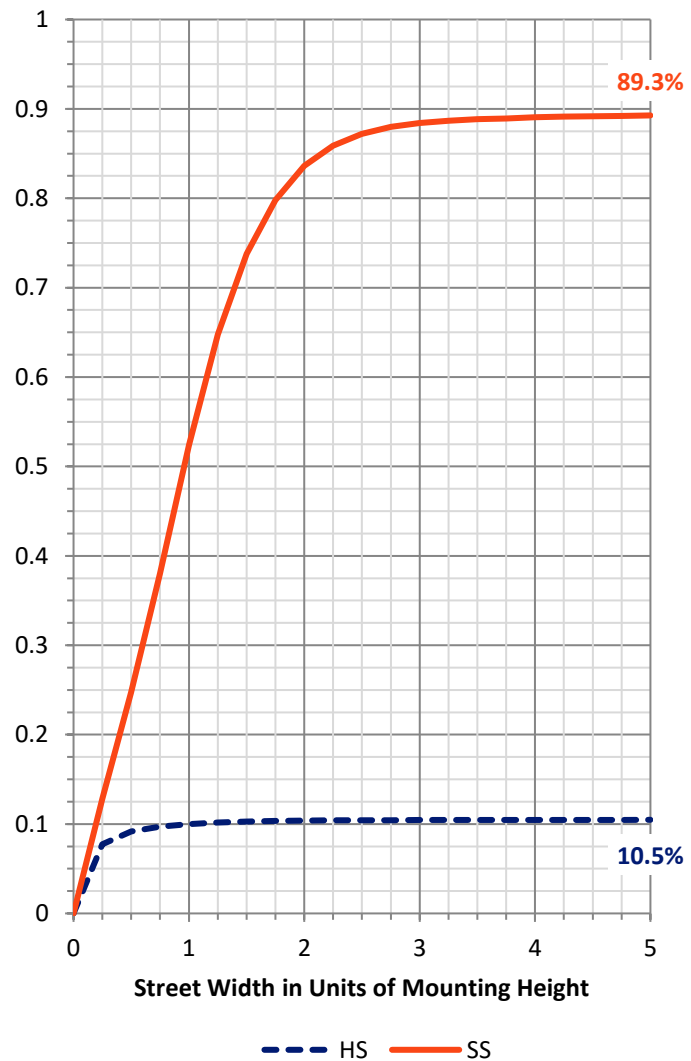
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	393.8	0.0	393.8
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	3342.2	0.0	3342.2
	% Fixture	89.5	0.0	89.5
Total	Lumens	3736.0	0.0	3736.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.2	1.3
10°-20°	119.2	3.2
20°-30°	184.4	4.9
30°-40°	334.6	9.0
40°-50°	631.6	16.9
50°-60°	912.7	24.4
60°-70°	971.5	26.0
70°-80°	514.8	13.8
80°-90°	16.9	0.5
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°	3736.0	100.0
0°-180°	3736.0	100.0

Coefficient of Utilization



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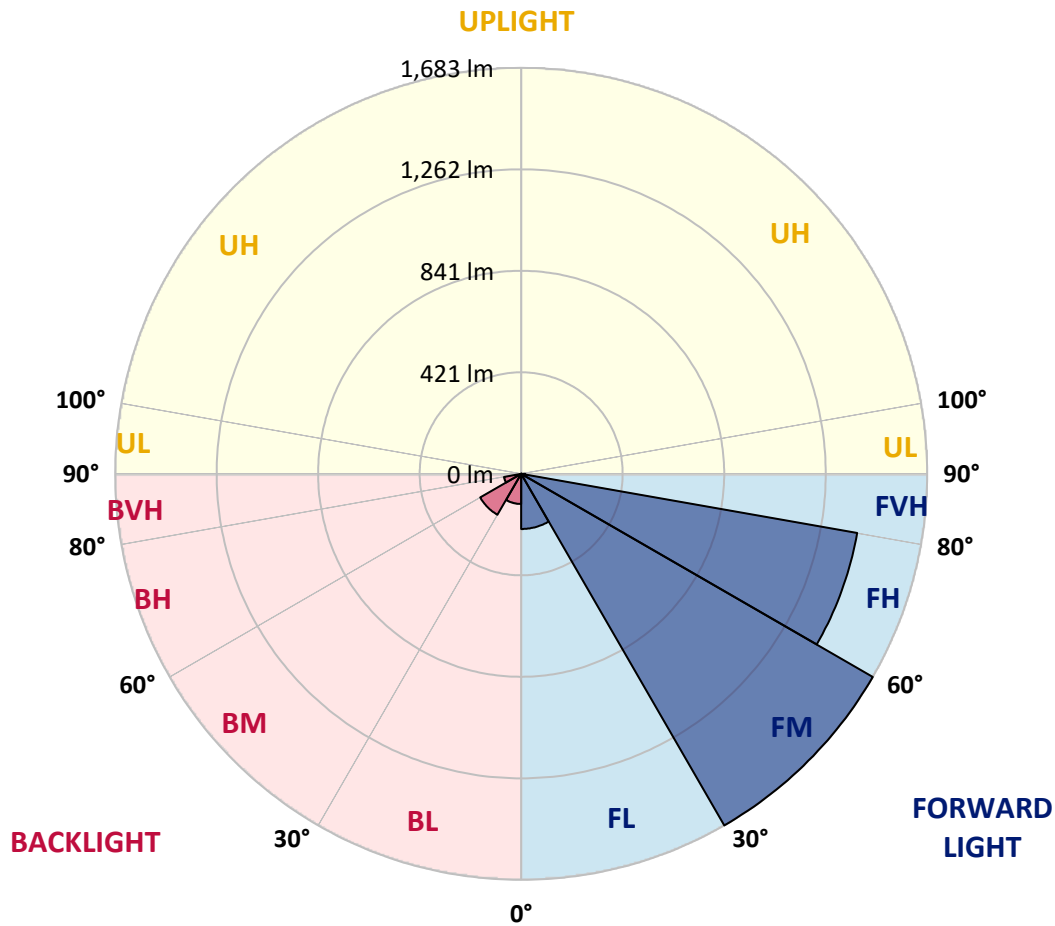
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	228.7	6.1			
FM	(30°-60°)	1682.9	45.0			
FH	(60°-80°)	1414.1	37.9			G1/1800
FVH	(80°-90°)	16.4	0.4			G1/100
BL	(0°-30°)	125.1	3.3	B1/500		
BM	(30°-60°)	196.1	5.2	B0/220		
BH	(60°-80°)	72.2	1.9	B0/110		G0/110
BVH	(80°-90°)	0.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	582.7	582.7	582.7	582.7	582.7	582.7	582.7	582.7	582.7	582.7	582.7
2.5°	547.1	552.1	551.4	554.7	555.9	560.6	565.3	571.7	578.7	578.5	583.2
5°	516.2	521.2	522.4	526.8	532.5	539.8	549.5	562.2	575.4	577.6	587.0
7.5°	479.6	484.8	487.9	496.9	507.3	522.4	538.2	556.8	578.7	581.8	600.0
10°	443.1	447.8	451.8	464.5	481.1	503.5	529.2	556.1	585.6	590.1	615.8
12.5°	420.4	424.9	429.4	440.5	461.0	488.4	523.3	559.4	596.9	603.3	637.2
15°	412.4	416.4	420.0	429.9	449.0	480.1	522.1	566.2	611.3	619.8	663.2
17.5°	413.6	415.7	418.1	425.6	444.3	476.3	524.2	578.0	628.3	635.8	689.2
20°	420.4	421.6	421.8	427.0	443.5	475.9	528.5	589.4	644.3	654.5	714.9
22.5°	429.2	429.6	429.2	432.7	448.0	479.4	534.1	603.0	662.3	671.7	740.8
25°	470.0	461.0	449.7	442.8	455.6	486.3	542.6	621.4	681.8	691.0	766.1
27.5°	596.7	571.0	530.4	484.8	471.2	496.2	554.4	640.1	701.7	709.9	793.2
30°	802.4	768.7	699.8	597.1	521.2	516.9	569.8	658.7	722.7	731.6	822.2
32.5°	1008.6	1000.3	920.8	778.8	633.7	563.2	595.3	684.0	750.5	757.6	861.4
35°	1217.2	1200.4	1135.3	994.9	807.1	657.3	637.7	717.0	787.1	795.1	918.5
37.5°	1376.9	1366.7	1326.4	1210.8	1012.8	802.6	710.4	768.2	840.1	849.1	991.6
40°	1518.0	1513.3	1499.6	1423.4	1242.9	992.8	823.4	847.5	913.8	924.4	1081.3
42.5°	1628.9	1640.0	1647.7	1626.5	1480.0	1209.9	975.3	958.8	1016.4	1027.2	1195.5
45°	1742.3	1746.1	1777.5	1808.2	1715.5	1436.8	1146.6	1089.3	1144.0	1157.5	1332.3
47.5°	1815.2	1830.3	1885.6	1939.6	1913.4	1661.9	1330.6	1243.4	1292.0	1317.2	1485.7
50°	1820.7	1849.2	1925.2	2019.3	2057.6	1876.1	1530.7	1418.9	1470.6	1498.4	1649.4
52.5°	1730.3	1774.7	1892.4	2030.2	2135.4	2057.6	1737.6	1594.4	1660.7	1697.0	1819.3
55°	1326.6	1384.7	1769.0	1971.2	2138.5	2195.1	1939.1	1777.3	1872.6	1913.6	2002.8
57.5°	1155.8	1185.1	1390.8	1868.8	2081.6	2250.5	2121.3	1951.4	2103.1	2154.0	2176.2
60°	961.7	1000.1	1166.4	1701.3	2004.5	2256.0	2282.2	2176.0	2352.9	2410.3	2335.2
62.5°	653.5	695.3	860.7	1413.5	1899.0	2253.4	2414.0	2407.2	2630.6	2692.2	2470.0
65°	404.9	431.0	540.0	1154.2	1751.5	2256.2	2552.1	2688.0	2923.7	2986.2	2574.2
67.5°	319.9	332.0	388.8	886.2	1497.5	2192.5	2689.8	2952.0	3199.5	3249.0	2606.1
70°	214.9	222.2	282.9	594.1	1114.1	1898.5	2687.2	3084.6	3341.5	3366.3	2490.0
72.5°	113.2	118.9	165.4	275.1	672.9	1349.5	2265.2	2926.0	3200.2	3162.9	2128.3
75°	56.6	66.1	111.4	139.7	287.4	752.6	1406.6	2306.9	2518.8	2374.4	1365.6
77.5°	42.9	51.9	92.0	92.0	100.0	253.4	595.7	1258.2	1160.5	966.4	400.8
80°	27.4	35.4	80.5	69.6	41.8	64.4	155.2	352.5	246.5	187.6	72.9
82.5°	16.0	23.1	67.0	46.0	23.4	23.8	43.9	75.0	63.9	49.8	22.4
85°	6.4	15.1	46.0	18.2	9.2	5.9	13.2	16.0	13.2	9.9	5.7
87.5°	0.0	3.5	8.0	0.0	0.7	0.5	0.9	1.2	1.2	0.9	1.9
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°	582.7	582.7	582.7	582.7	582.7	582.7	582.7	582.7	582.7	582.7	582.7
2.5°	585.3	585.8	587.2	587.5	584.2	579.9	578.3	577.6	574.7	574.5	575.0
5°	592.4	594.5	592.4	586.3	571.7	551.1	535.6	522.8	511.3	507.7	505.6
7.5°	606.6	608.7	602.3	578.3	541.5	500.6	463.8	437.9	414.5	405.8	402.3
10°	626.9	629.7	609.6	561.0	495.9	430.3	368.1	324.2	290.0	276.0	270.1
12.5°	652.3	653.5	613.7	534.9	436.7	343.0	254.8	207.9	177.4	166.1	162.6
15°	680.4	678.8	614.1	499.2	356.0	242.5	166.3	136.6	124.3	120.6	120.6
17.5°	709.9	703.1	604.7	447.8	267.5	165.9	123.4	116.3	114.2	113.2	113.0
20°	738.9	723.6	587.5	380.6	192.0	123.9	112.1	109.9	108.8	108.3	107.8
22.5°	765.4	739.2	558.0	302.5	139.4	109.5	105.9	104.0	101.9	101.0	100.7
25°	791.1	748.1	516.5	229.6	111.6	102.4	99.6	96.0	93.2	92.0	91.5
27.5°	816.1	753.8	464.5	169.9	99.6	95.8	90.6	85.6	83.5	83.0	82.6
30°	842.7	755.7	405.6	126.7	92.2	87.5	80.0	74.3	73.1	73.4	73.4
32.5°	875.3	758.5	346.1	103.8	86.1	77.6	68.7	62.8	61.8	62.8	62.5
35°	914.2	764.2	288.8	95.6	80.7	67.5	57.8	52.8	51.9	52.6	52.4
37.5°	967.1	773.4	235.2	93.9	76.2	59.0	48.6	44.6	44.6	44.8	44.6
40°	1037.4	797.9	187.3	92.7	73.8	52.6	41.1	39.4	40.1	40.6	40.6
42.5°	1123.0	850.1	155.0	91.3	71.3	49.8	37.3	36.6	37.7	38.2	38.2
45°	1219.1	916.1	143.7	88.9	68.9	51.7	35.6	34.7	36.1	36.3	36.6
47.5°	1318.4	980.8	142.3	86.4	66.5	54.5	35.2	33.0	34.7	34.9	35.2
50°	1418.9	1023.0	143.7	82.3	62.8	54.5	35.4	31.4	32.8	33.5	33.7
52.5°	1520.1	1042.3	142.7	73.6	56.2	51.2	35.4	30.0	31.4	31.9	31.9
55°	1618.2	1038.6	128.3	60.6	47.7	45.3	34.4	28.8	29.7	30.0	30.0
57.5°	1695.9	986.0	101.7	47.2	38.7	37.7	31.4	27.4	28.1	27.8	27.8
60°	1736.4	870.3	72.7	36.3	30.4	29.7	27.6	25.5	26.0	24.8	24.5
62.5°	1736.9	717.5	48.6	28.8	24.3	23.6	23.6	22.9	22.4	20.1	19.3
65°	1699.9	547.8	32.3	22.9	19.6	18.4	19.8	19.6	17.9	14.6	14.2
67.5°	1615.9	359.1	24.5	17.9	15.1	14.4	15.8	16.5	15.3	12.3	12.0
70°	1443.2	209.0	20.3	13.9	11.3	10.6	12.7	14.2	12.7	9.9	9.4
72.5°	1198.8	112.8	16.5	10.4	7.8	7.1	10.1	11.6	10.1	7.3	7.1
75°	777.9	60.4	12.7	6.8	4.0	4.5	7.5	8.5	7.1	4.7	4.2
77.5°	261.2	26.7	8.0	3.3	1.9	1.9	4.5	5.2	3.3	1.7	1.4
80°	58.3	11.1	3.3	1.4	0.7	0.7	0.9	0.9	0.5	0.0	0.0
82.5°	19.1	4.5	1.4	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.3	1.7	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.8	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)