

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: P938736

Luminaire Tested: **GALN-SB1A-730-U-T3-HSS**

Issue Date: 1/21/2025

**Test Information**

Test Method: LM-79-08  
Report Number: P938736  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)  
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-T3-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

**Summary**

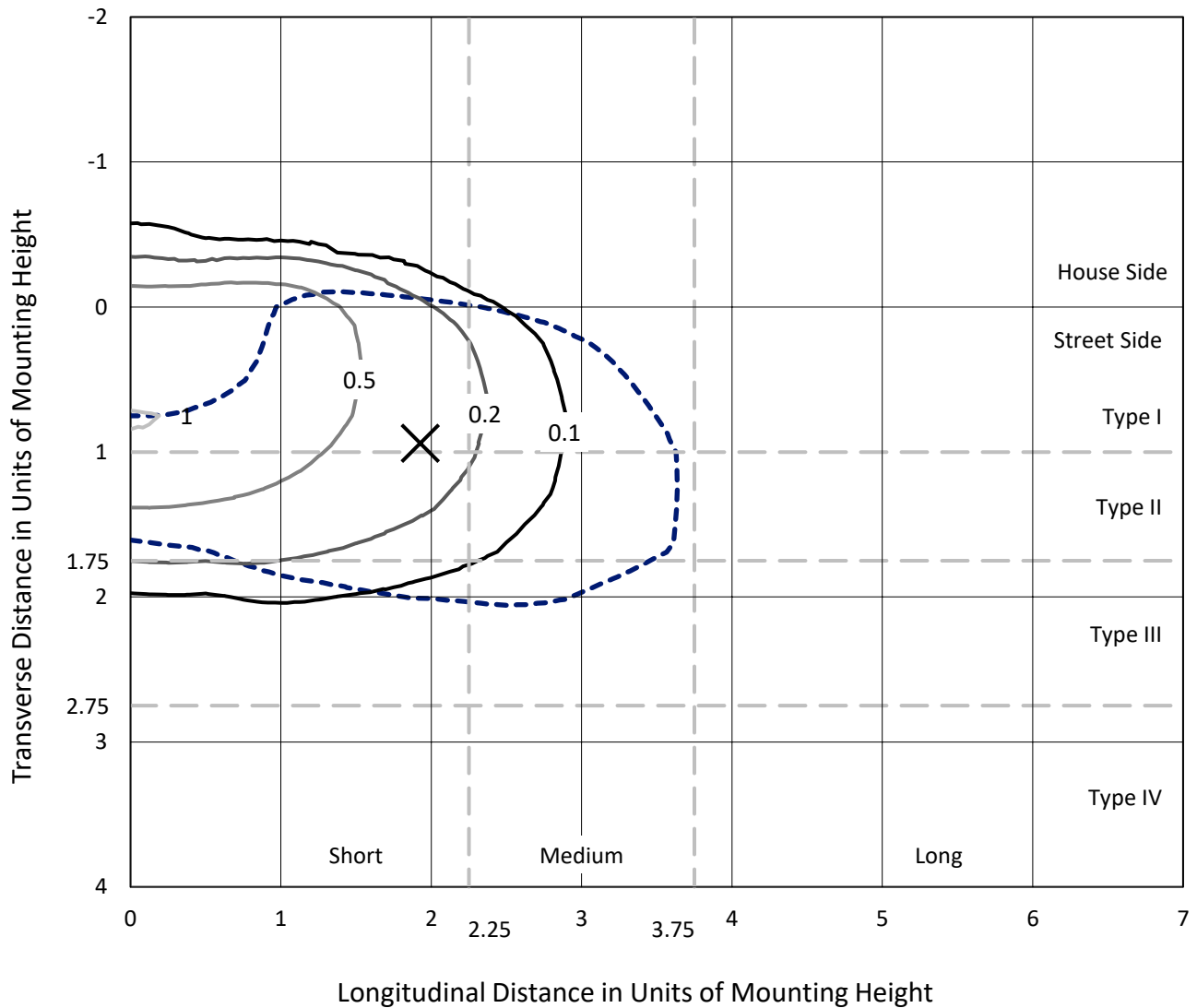
Lumens per Lamp: N/A  
Luminaire Lumens: 3519 lumens  
Efficiency: N/A  
Efficacy: 113.9 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 30.9  
Input Voltage (V): NR  
Input Current (Ain): NR  
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

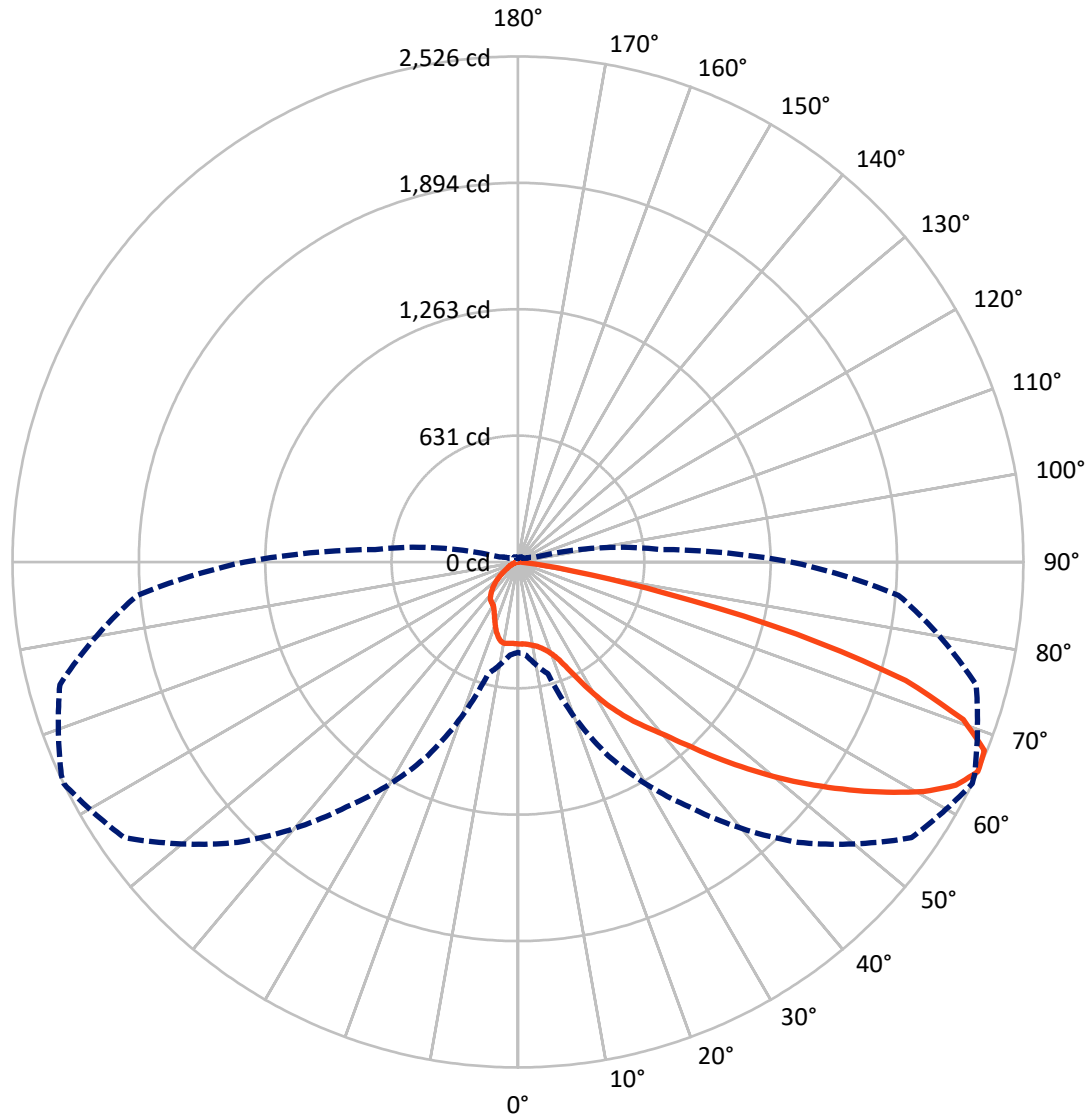
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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 CATALOG NUMBER: GALN-SB1A-730-U-T3-HSS

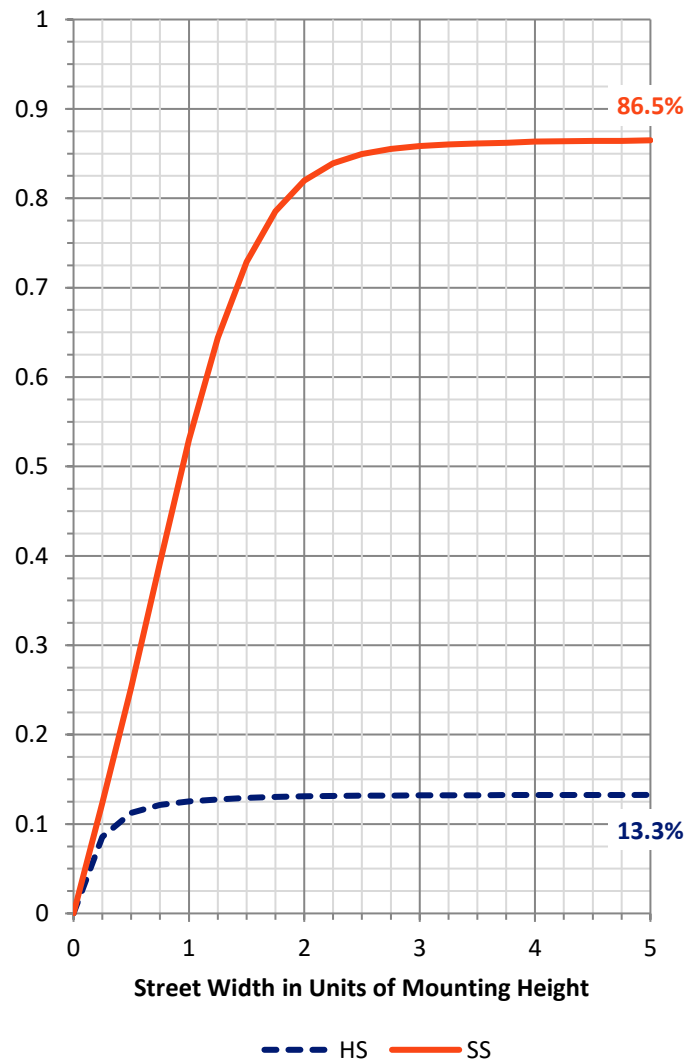
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	470.6	0.0	470.6
	% Fixture	13.4	0.0	13.4
<b>Street Side</b>	Lumens	3048.4	0.0	3048.4
	% Fixture	86.6	0.0	86.6
<b>Total</b>	Lumens	3519.0	0.0	3519.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	37.8	1.1
10°-20°	102.4	2.9
20°-30°	194.1	5.5
30°-40°	392.7	11.2
40°-50°	669.0	19.0
50°-60°	909.8	25.9
60°-70°	854.3	24.3
70°-80°	342.3	9.7
80°-90°	16.6	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°	3519.0	100.0
0°-180°	3519.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P938736

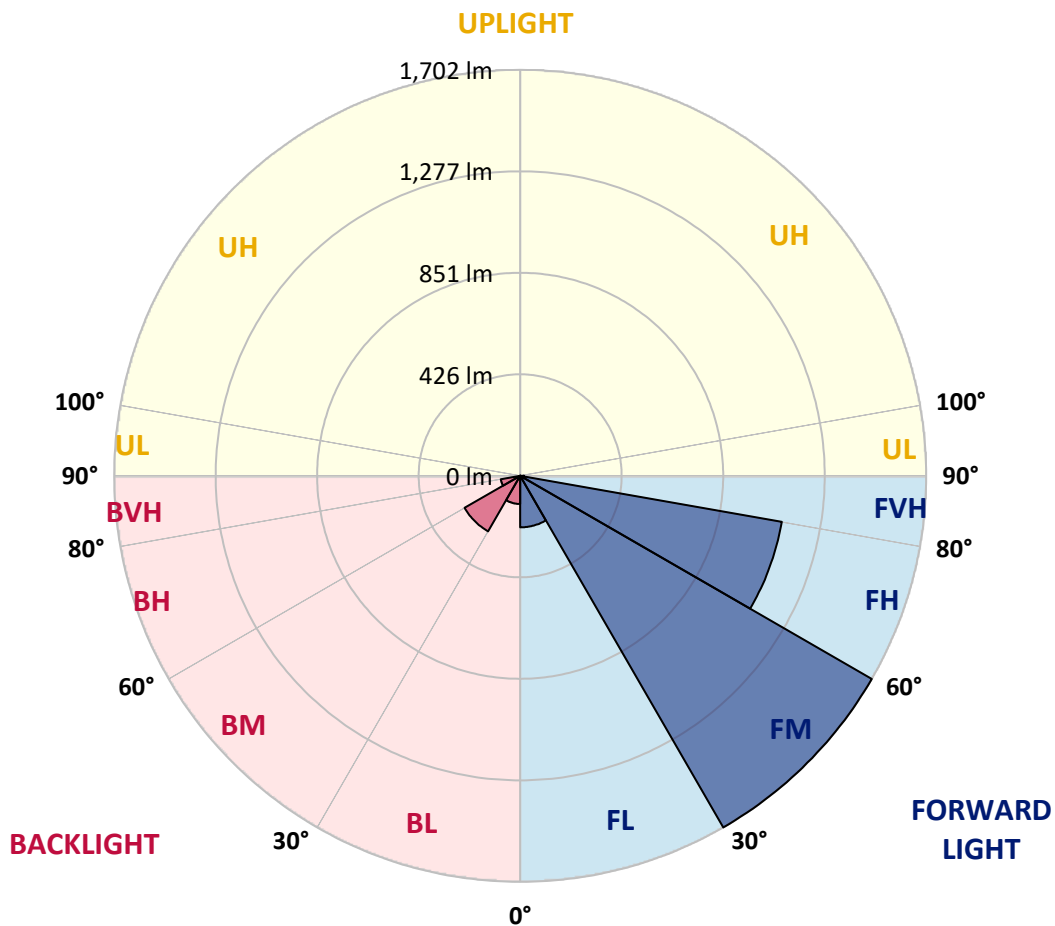
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	216.1	6.1			
FM (30°-60°)	1702.5	48.4			
FH (60°-80°)	1114.0	31.7			G1/1800
FVH (80°-90°)	15.8	0.4			G1/100
BL (0°-30°)	118.2	3.4	B1/500		
BM (30°-60°)	269.0	7.6	B1/1000		
BH (60°-80°)	82.6	2.3	B0/110		G0/110
BVH (80°-90°)	0.8	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 Short



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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	409.3	409.3	409.3	409.3	409.3	409.3	409.3	409.3	409.3	409.3	409.3
2.5°	407.9	410.7	410.0	409.3	409.1	409.5	409.8	409.5	409.5	409.5	409.8
5°	400.1	402.5	402.5	404.1	406.5	409.3	411.4	411.9	412.4	413.1	412.8
7.5°	385.2	387.1	388.5	394.0	399.9	407.4	413.8	417.1	417.6	420.1	421.1
10°	375.1	377.4	379.8	385.5	394.0	405.3	416.1	424.2	425.3	431.5	434.3
12.5°	374.6	377.0	380.0	386.2	396.1	408.1	421.3	432.9	435.0	444.0	449.9
15°	379.6	382.4	385.2	392.8	403.4	418.0	432.2	446.6	448.7	461.4	467.8
17.5°	389.7	393.5	395.6	403.2	414.5	430.8	449.4	465.9	467.8	482.7	490.7
20°	409.8	414.3	415.0	421.1	432.2	449.6	471.8	492.3	494.7	511.7	520.6
22.5°	451.3	457.7	452.0	455.1	465.0	482.4	506.5	532.4	535.7	555.1	563.1
25°	524.4	533.4	518.8	513.6	517.8	536.0	566.2	599.0	602.7	618.3	622.3
27.5°	668.1	656.5	634.4	612.6	599.9	610.3	644.3	684.8	689.6	704.7	699.9
30°	825.9	815.8	785.8	737.7	707.5	705.8	737.2	782.5	787.9	802.3	787.9
32.5°	984.0	974.3	941.7	882.5	830.2	804.2	825.9	876.2	879.0	888.2	867.0
35°	1139.4	1129.5	1097.0	1036.3	971.9	913.0	908.7	965.3	966.3	975.9	944.3
37.5°	1295.8	1287.6	1252.9	1193.4	1130.0	1048.6	1009.2	1049.8	1051.0	1060.4	1027.6
40°	1407.4	1411.0	1387.1	1341.1	1286.6	1197.7	1122.0	1139.7	1132.6	1148.4	1128.8
42.5°	1503.2	1510.3	1489.5	1466.4	1434.8	1356.5	1261.6	1258.6	1247.2	1255.7	1235.4
45°	1586.0	1591.9	1573.3	1567.8	1567.1	1512.2	1414.3	1395.9	1380.0	1378.4	1354.1
47.5°	1616.4	1627.7	1635.8	1653.9	1689.3	1666.2	1572.1	1543.5	1525.8	1512.9	1474.4
50°	1628.0	1640.0	1667.4	1720.2	1804.0	1813.9	1729.2	1697.1	1675.4	1651.8	1595.2
52.5°	1612.4	1633.9	1670.7	1759.6	1881.1	1932.3	1879.9	1851.9	1827.1	1788.6	1704.7
55°	1520.6	1542.1	1617.4	1759.1	1919.6	2015.3	2022.4	2009.9	1982.1	1921.5	1793.1
57.5°	1327.2	1359.1	1478.2	1699.2	1918.9	2086.8	2162.1	2171.0	2139.9	2053.1	1862.7
60°	1059.2	1102.4	1247.7	1566.4	1859.6	2125.5	2284.5	2329.3	2296.3	2182.8	1919.1
62.5°	739.1	789.1	926.6	1358.3	1724.2	2097.7	2373.9	2456.7	2431.7	2298.9	1940.8
65°	450.8	466.9	577.7	1068.9	1494.0	1981.1	2401.5	2525.6	2517.3	2369.9	1908.7
67.5°	300.3	313.8	345.6	733.0	1159.7	1748.3	2335.5	2513.6	2515.9	2358.3	1791.2
70°	180.9	192.5	213.3	426.3	751.6	1383.8	2130.9	2360.2	2373.9	2203.8	1568.5
72.5°	74.5	82.3	101.2	193.2	389.2	878.3	1696.9	2026.4	2058.3	1853.0	1203.8
75°	42.2	46.2	59.4	97.0	168.9	409.3	1027.8	1438.6	1485.5	1277.2	724.2
77.5°	28.1	30.0	38.5	62.8	95.1	139.7	439.3	749.5	839.1	697.6	313.5
80°	18.9	20.5	26.4	42.0	61.8	59.9	139.9	277.7	341.6	239.7	76.4
82.5°	12.7	13.0	18.9	27.6	39.2	29.0	41.3	86.3	108.5	69.4	29.0
85°	7.3	7.1	13.9	16.0	17.5	12.0	12.5	25.9	34.0	29.3	16.5
87.5°	0.9	1.4	5.4	4.2	2.4	2.6	2.6	4.5	6.6	7.1	3.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P938736  
 CATALOG NUMBER: GALN-SB1A-730-U-T3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	409.3	409.3	409.3	409.3	409.3	409.3	409.3	409.3	409.3	409.3	409.3
2.5°	409.8	409.5	408.8	408.1	406.5	405.5	406.0	405.5	405.3	405.5	406.5
5°	412.8	412.1	410.2	407.9	404.6	400.6	398.0	394.2	390.7	388.5	389.0
7.5°	421.1	420.4	417.8	411.2	400.6	383.8	368.5	355.0	344.9	339.0	339.2
10°	434.3	433.1	429.1	414.5	386.6	350.1	319.7	294.4	277.9	270.1	269.4
12.5°	449.9	448.5	441.4	411.4	360.2	303.1	261.1	233.1	217.7	210.9	210.2
15°	468.3	466.4	452.5	396.8	321.8	251.2	212.8	191.8	181.9	175.7	176.0
17.5°	491.2	487.9	460.7	374.9	280.0	211.6	183.1	167.3	158.5	152.6	152.2
20°	520.9	515.5	467.3	348.7	241.6	186.6	163.0	149.8	143.2	138.0	137.1
22.5°	562.4	554.6	475.3	320.4	214.4	169.4	148.1	138.5	133.1	127.2	126.2
25°	613.8	604.6	485.3	294.2	195.8	154.5	137.3	129.3	122.9	116.1	115.4
27.5°	685.8	669.3	497.1	272.7	179.8	141.8	127.4	118.4	111.1	105.4	104.3
30°	766.0	738.9	507.4	259.7	165.1	130.0	114.4	105.4	98.6	94.6	93.9
32.5°	841.9	805.1	514.3	254.1	151.9	116.5	100.3	90.6	85.4	84.2	84.9
35°	913.7	865.1	513.6	248.6	140.1	103.1	86.3	76.4	72.4	73.1	73.1
37.5°	996.2	929.0	508.6	240.2	130.5	90.8	74.3	65.6	62.0	62.3	63.2
40°	1092.2	1002.8	505.5	224.1	119.8	79.5	64.4	57.3	54.7	53.8	53.6
42.5°	1194.6	1074.3	506.0	205.9	106.6	69.4	57.6	51.7	49.3	48.6	48.4
45°	1297.5	1142.5	506.7	187.1	92.7	61.6	52.6	47.7	46.2	45.3	45.3
47.5°	1394.2	1200.5	493.5	166.8	79.0	55.7	48.6	45.3	44.1	42.9	42.9
50°	1484.3	1239.2	461.7	143.2	68.2	51.0	45.5	43.2	42.0	40.8	40.8
52.5°	1554.4	1245.3	409.1	118.9	60.6	47.4	43.6	41.5	40.1	38.9	38.7
55°	1585.5	1206.9	334.3	96.2	54.7	44.4	41.8	39.6	38.0	36.8	36.6
57.5°	1577.5	1126.0	260.7	77.4	49.1	41.3	39.4	38.0	36.1	34.2	34.0
60°	1538.1	1017.7	196.5	64.4	43.9	38.0	36.8	35.6	33.0	30.2	29.7
62.5°	1469.9	881.6	140.1	53.3	38.2	34.2	33.7	32.8	29.0	23.8	23.4
65°	1365.7	716.2	94.4	44.4	32.8	30.0	30.2	28.5	23.6	17.7	17.2
67.5°	1213.3	523.7	60.4	36.3	27.4	25.0	25.2	24.3	20.1	15.1	14.4
70°	1019.1	346.8	39.4	27.6	21.9	19.3	20.8	21.0	17.0	12.3	11.8
72.5°	747.1	204.8	27.6	20.5	16.0	13.4	17.0	17.5	13.7	9.2	8.7
75°	425.8	97.2	20.8	14.9	9.9	9.4	13.2	13.2	9.4	6.1	5.7
77.5°	178.8	40.6	14.6	9.7	5.7	5.4	9.0	8.3	4.7	2.8	2.8
80°	51.7	18.2	7.8	4.7	2.4	2.1	3.5	2.6	1.2	0.5	0.5
82.5°	20.3	8.0	3.1	1.9	0.9	0.9	0.5	0.0	0.0	0.0	0.0
85°	12.0	3.3	1.4	0.7	0.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	0.7	0.5	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)