

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: P458565

Luminaire Tested: **GALN-SA1B-735-U-T3R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-735-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3500K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE III ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4199 lumens
Efficiency: N/A
Efficacy: 95.4 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

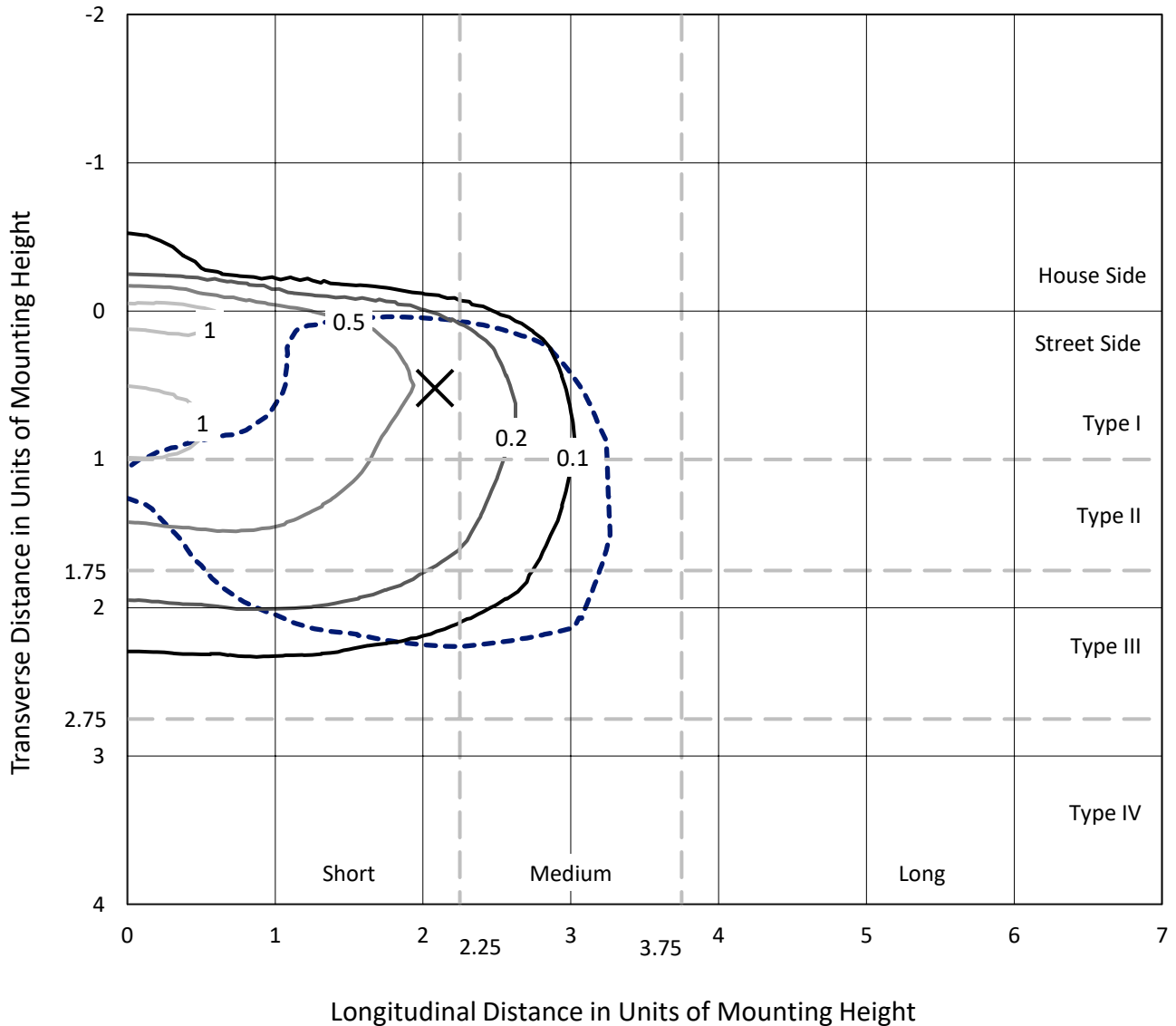
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

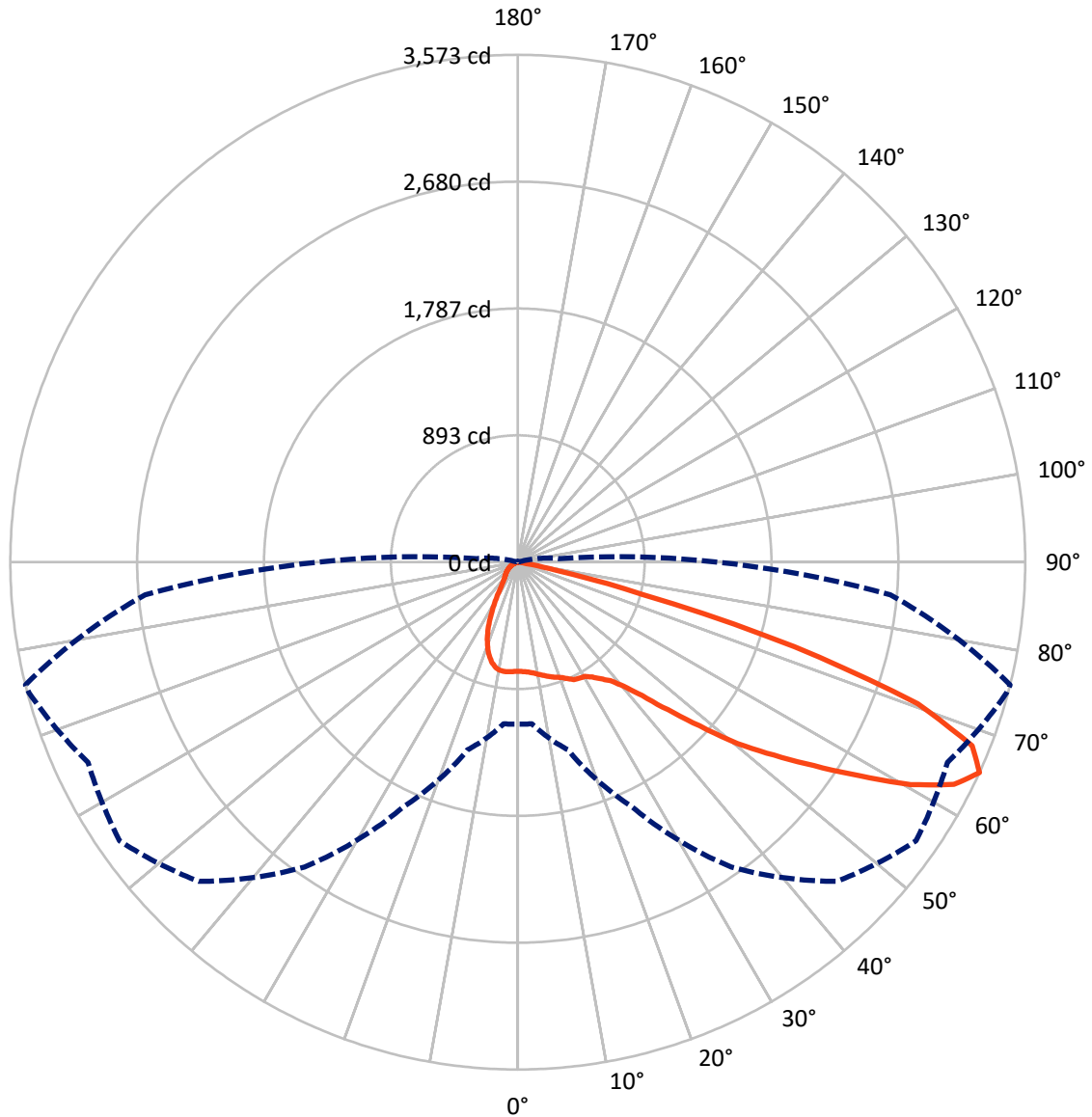
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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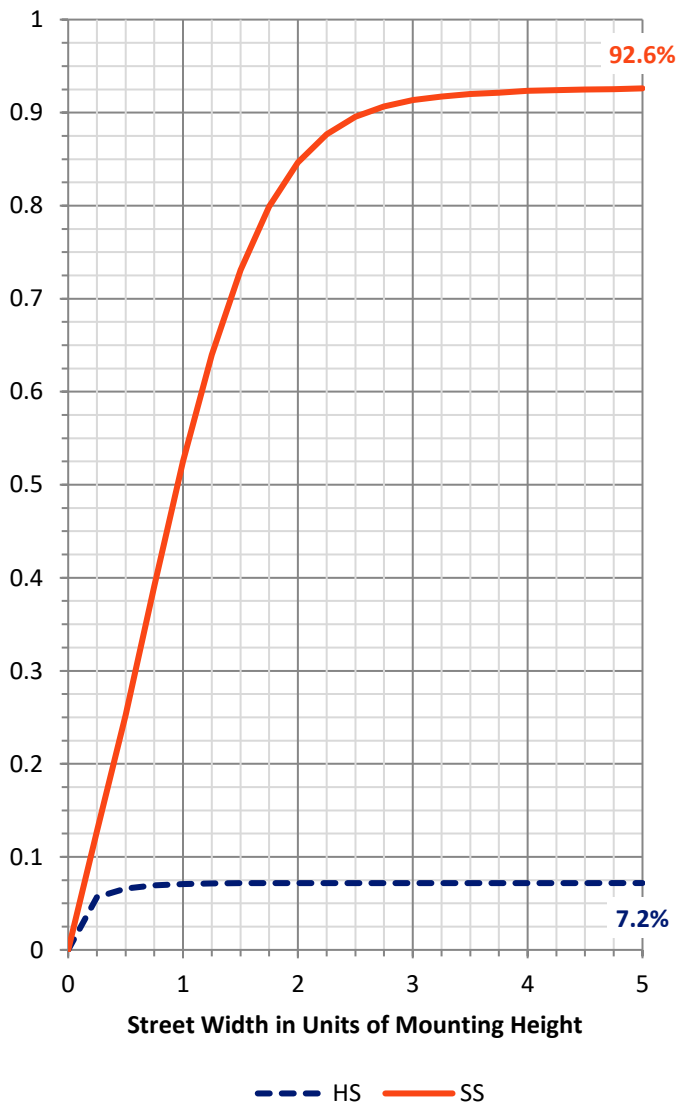
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	303.3	0.0	303.3
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	3895.7	0.0	3895.7
	% Fixture	92.8	0.0	92.8
Total	Lumens	4199.0	0.0	4199.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.3	1.5
10°-20°	140.9	3.4
20°-30°	227.0	5.4
30°-40°	394.7	9.4
40°-50°	652.3	15.5
50°-60°	1007.7	24.0
60°-70°	1230.5	29.3
70°-80°	467.0	11.1
80°-90°	15.6	0.4
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°	4199.0	100.0
0°-180°	4199.0	100.0

Coefficient of Utilization



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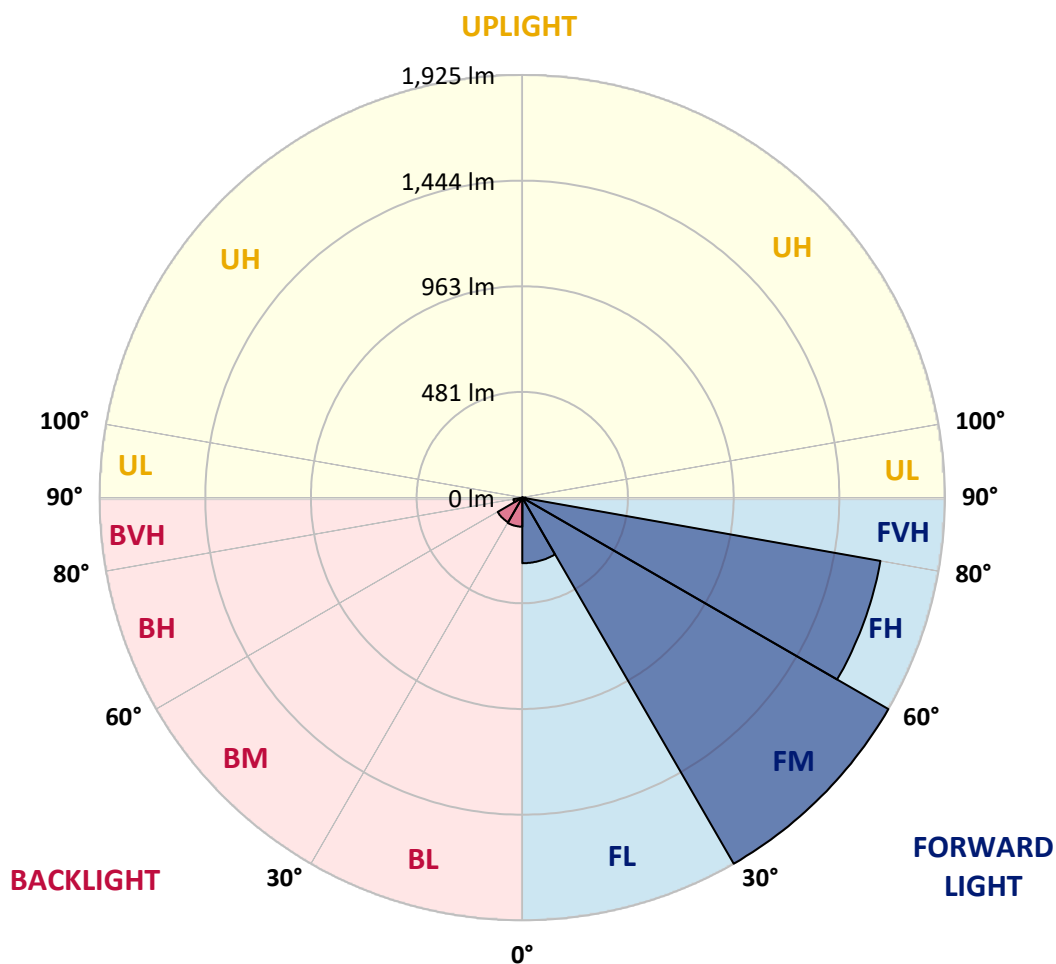
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	298.7	7.1			
FM (30°-60°)	1925.3	45.9			
FH (60°-80°)	1656.4	39.4			G1/1800
FVH (80°-90°)	15.4	0.4			G1/100
BL (0°-30°)	132.5	3.2	B1/500		
BM (30°-60°)	129.4	3.1	B0/220		
BH (60°-80°)	41.1	1.0	B0/110		G0/110
BVH (80°-90°)	0.2	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°	65°	75°	76°	85°
0°	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1
2.5°	734.0	734.3	736.1	740.6	747.4	753.0	757.8	765.5	770.8	771.4	773.2
5°	683.3	679.8	683.3	694.9	705.3	721.0	740.3	759.5	776.7	777.9	786.2
7.5°	626.4	629.4	635.0	646.9	666.4	690.5	718.3	752.7	785.3	788.3	804.6
10°	568.6	575.1	584.3	602.4	629.7	660.8	698.8	748.0	799.0	803.1	831.3
12.5°	515.2	518.2	529.5	553.8	587.6	631.5	683.9	745.3	814.1	819.1	859.7
15°	474.3	478.2	488.0	509.9	547.6	603.9	671.8	744.4	828.9	836.0	888.2
17.5°	466.6	469.0	473.2	488.0	520.9	582.0	660.8	744.1	843.1	851.7	914.6
20°	498.4	496.3	492.1	490.6	508.7	565.1	652.8	746.5	856.8	866.6	942.5
22.5°	577.8	580.5	556.2	527.4	521.5	562.4	651.6	757.8	878.4	890.0	973.6
25°	746.5	726.0	688.1	619.3	567.4	578.7	665.0	784.4	903.6	916.4	1001.7
27.5°	933.0	926.7	867.7	754.5	657.8	613.1	688.7	804.9	911.9	925.0	1017.8
30°	1116.2	1123.6	1056.0	930.9	789.2	676.8	710.9	812.6	919.3	933.0	1038.2
32.5°	1286.0	1294.9	1235.7	1111.7	943.9	787.1	749.2	842.5	950.5	964.4	1072.3
35°	1419.8	1420.9	1376.2	1277.5	1112.9	921.1	831.9	895.0	992.6	1008.9	1108.5
37.5°	1542.5	1540.7	1488.2	1403.2	1253.7	1054.2	935.9	955.5	1040.6	1057.5	1160.6
40°	1633.5	1634.7	1617.8	1537.7	1385.1	1177.2	1018.3	1012.1	1121.2	1147.6	1236.5
42.5°	1694.3	1705.2	1713.5	1672.9	1550.2	1328.7	1144.9	1133.4	1261.1	1283.1	1343.9
45°	1743.5	1763.1	1804.6	1802.5	1708.8	1514.6	1318.7	1294.9	1459.5	1482.9	1480.5
47.5°	1779.4	1799.2	1868.0	1909.5	1857.9	1694.9	1537.2	1516.7	1696.4	1721.8	1631.4
50°	1797.7	1821.5	1909.2	1989.6	1974.4	1868.6	1786.2	1787.4	1982.4	2007.0	1806.3
52.5°	1754.8	1785.6	1931.1	2075.8	2105.2	2034.9	2019.5	2058.6	2237.1	2258.1	1964.4
55°	1617.5	1656.3	1901.2	2149.3	2256.7	2231.2	2284.5	2344.1	2515.5	2529.1	2126.5
57.5°	1530.6	1571.8	1812.9	2211.9	2438.7	2477.8	2562.3	2605.9	2802.7	2837.4	2312.7
60°	1457.4	1489.7	1740.2	2225.2	2623.7	2779.6	2861.7	2906.8	3157.3	3179.8	2517.5
62.5°	1335.6	1372.6	1617.5	2132.1	2716.8	3021.2	3191.4	3171.2	3431.5	3447.3	2643.2
65°	1139.6	1142.9	1368.5	1898.2	2620.7	3178.1	3422.9	3338.5	3562.6	3573.2	2633.5
67.5°	850.5	882.0	1052.7	1492.1	2213.7	3044.1	3497.9	3342.9	3479.9	3450.2	2424.5
70°	547.9	571.9	713.6	1034.6	1596.1	2540.4	3249.2	3113.7	3054.1	2988.3	1984.5
72.5°	252.9	283.7	423.9	591.1	946.6	1809.6	2637.6	2529.7	2198.3	2035.8	1261.4
75°	110.3	118.0	209.3	311.9	443.8	957.0	1739.0	1570.4	992.8	906.9	504.9
77.5°	67.3	72.3	109.7	167.2	174.3	364.6	936.8	685.1	306.8	270.7	137.0
80°	45.7	51.3	79.7	87.5	59.6	101.7	351.6	182.9	62.0	59.3	29.3
82.5°	22.2	28.2	59.0	48.9	25.8	32.6	102.3	39.1	18.1	16.9	10.4
85°	3.3	5.6	33.2	32.0	11.6	7.7	18.1	9.8	6.2	5.9	4.7
87.5°	0.0	0.0	11.3	5.0	1.2	1.2	2.1	2.1	2.4	2.1	2.4
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°	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1	768.1
2.5°	774.1	775.5	769.9	761.9	753.3	744.7	732.6	721.6	715.1	718.9	709.4
5°	788.0	786.8	772.0	747.7	715.4	676.5	638.0	605.1	594.4	578.4	576.6
7.5°	807.3	804.0	772.6	716.8	643.9	571.0	499.8	452.7	425.7	402.9	403.5
10°	834.2	824.8	765.8	662.6	542.5	432.5	341.8	279.6	252.6	244.0	237.2
12.5°	862.1	843.7	746.8	589.4	422.5	295.6	207.8	169.9	153.3	147.9	147.3
15°	887.0	858.0	713.6	501.3	307.1	188.8	141.7	129.3	127.2	127.5	127.2
17.5°	911.6	869.2	667.6	407.9	208.7	135.5	121.8	118.9	119.8	121.0	120.7
20°	932.1	871.6	608.9	311.3	147.6	118.9	114.4	113.8	114.7	115.6	115.6
22.5°	954.3	873.4	539.3	215.5	120.7	110.6	108.2	108.2	109.4	110.6	110.9
25°	970.9	863.6	456.0	154.8	106.4	102.6	101.4	101.7	102.9	103.5	103.2
27.5°	973.6	836.0	367.6	118.6	96.6	92.8	91.6	92.8	91.3	92.2	91.6
30°	976.0	801.0	278.1	99.9	87.8	81.8	80.0	78.3	77.1	75.6	75.3
32.5°	983.4	759.8	203.1	89.8	79.5	72.9	68.8	63.7	59.9	58.7	58.4
35°	986.6	710.3	149.1	81.8	72.0	64.9	57.5	50.4	44.8	42.7	44.2
37.5°	999.1	662.3	115.6	75.9	65.5	56.6	47.1	38.2	32.9	31.7	32.3
40°	1024.6	610.1	96.9	70.9	59.9	48.9	37.4	28.8	25.2	24.0	23.7
42.5°	1065.5	558.2	86.3	66.1	54.3	41.2	29.3	22.5	19.6	18.7	18.7
45°	1115.3	508.4	78.9	61.1	48.3	33.2	23.1	18.1	16.3	15.7	15.7
47.5°	1180.8	464.9	72.6	56.0	41.8	26.4	18.7	15.7	14.5	14.8	15.1
50°	1247.2	432.5	65.8	50.4	34.4	21.6	16.0	13.9	13.6	13.9	13.9
52.5°	1297.3	413.6	56.6	42.7	27.0	18.1	14.2	13.0	12.7	12.2	12.2
55°	1364.9	409.4	45.1	34.7	21.3	15.1	12.7	11.9	11.0	10.4	10.1
57.5°	1451.8	414.2	34.7	27.0	16.6	12.5	11.3	9.8	8.6	7.4	7.4
60°	1505.7	403.5	27.0	20.8	12.2	10.1	8.6	7.1	5.6	4.7	4.4
62.5°	1488.5	358.4	21.3	15.4	8.6	7.4	5.6	4.7	3.3	2.4	2.1
65°	1399.9	289.3	17.2	10.7	6.2	4.4	3.0	3.0	1.5	0.3	0.0
67.5°	1225.3	214.3	13.6	7.1	3.6	2.1	1.5	0.9	0.0	0.0	0.0
70°	997.3	154.8	10.7	4.4	2.1	1.5	0.6	0.3	0.0	0.0	0.0
72.5°	633.2	88.6	8.3	2.7	1.5	0.6	0.0	0.0	0.0	0.0	0.0
75°	244.9	34.7	5.6	1.8	0.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	69.4	16.3	3.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	18.1	7.1	1.8	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	8.6	3.0	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	5.0	1.2	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.4	0.3	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)