

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: P450476

Luminaire Tested: **GALN-SA1B-730-U-T4FT-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450476
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-730-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV FORWARD
THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3776 lumens
Efficiency: N/A
Efficacy: 85.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G1

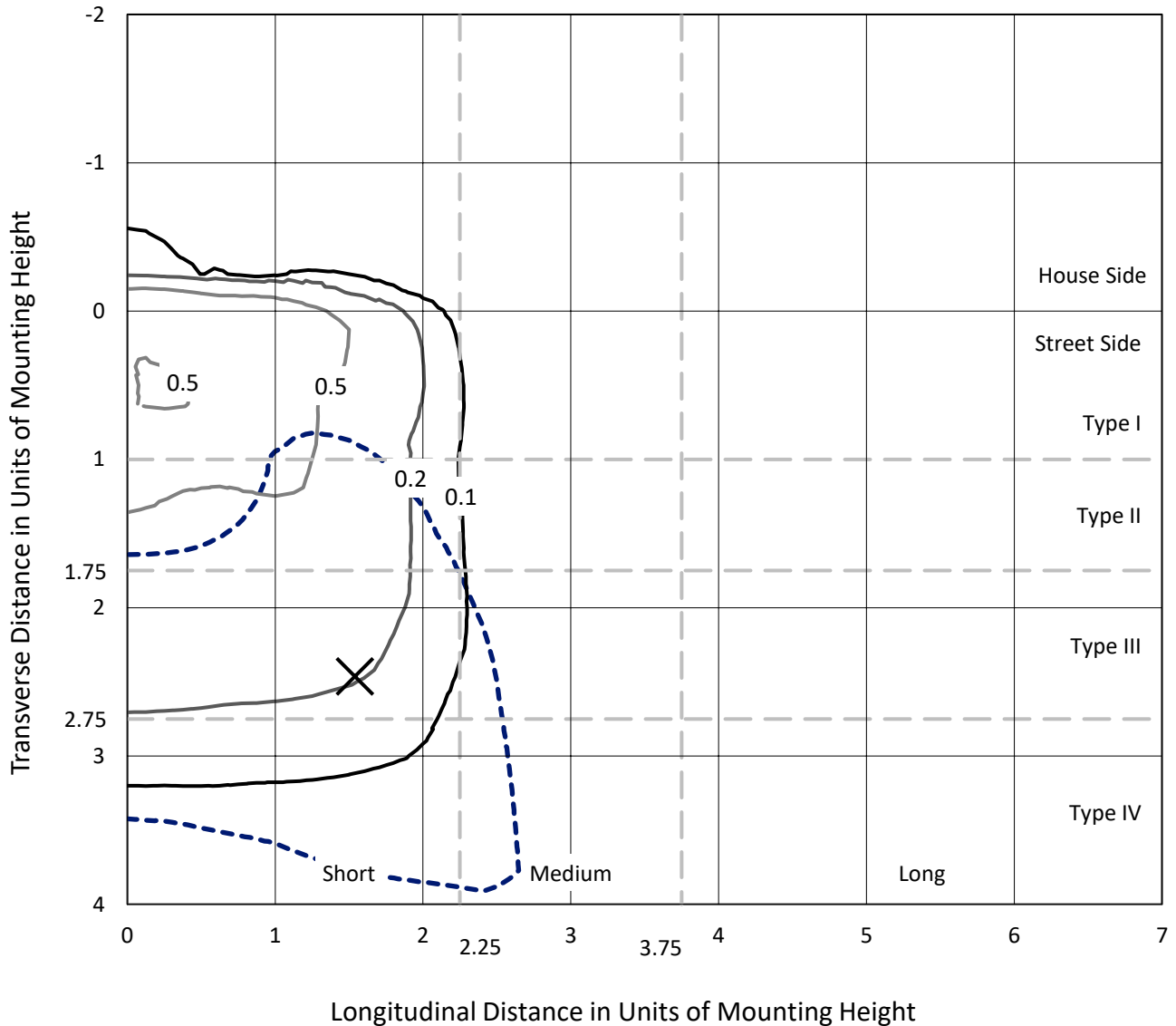
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

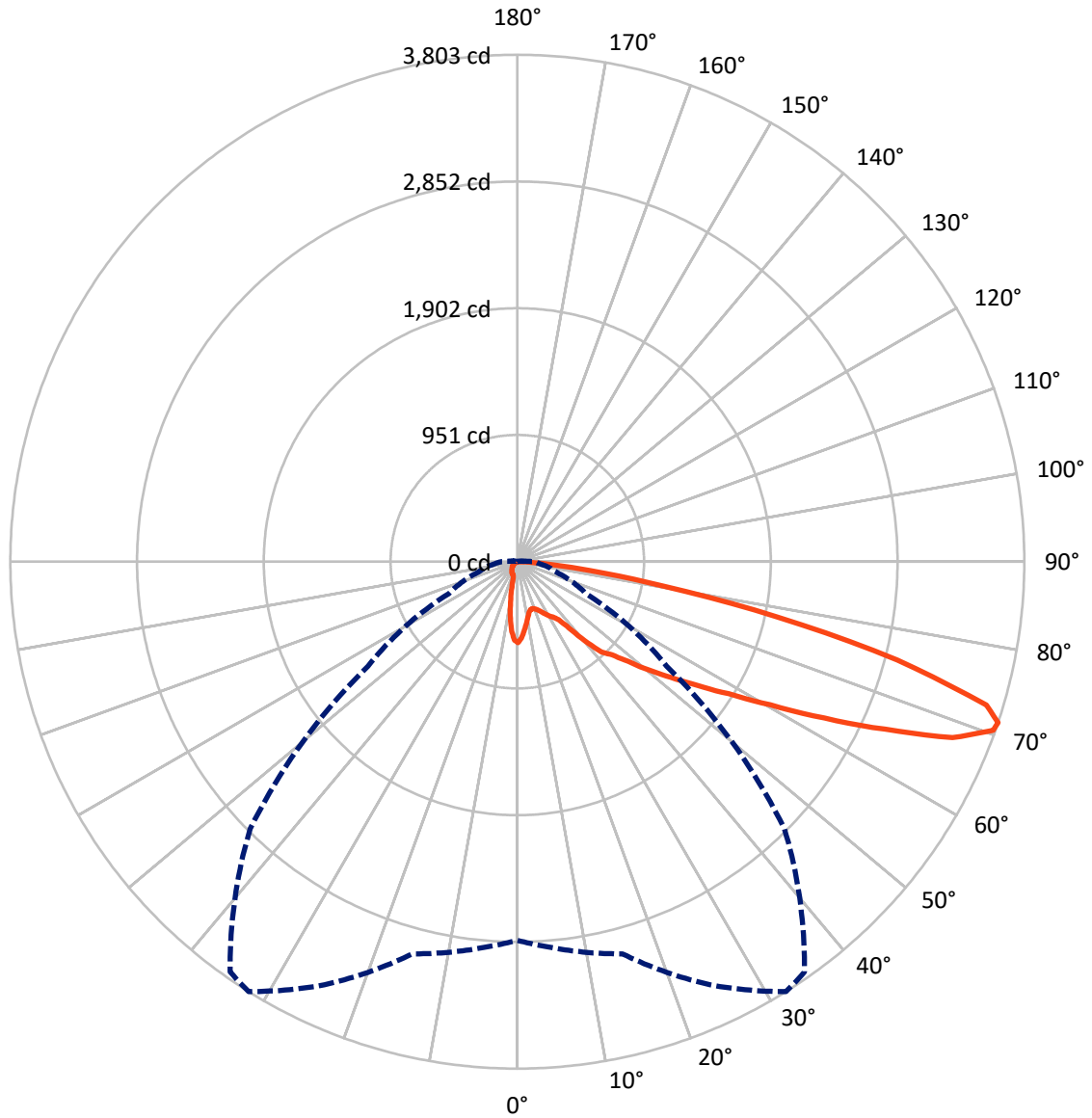
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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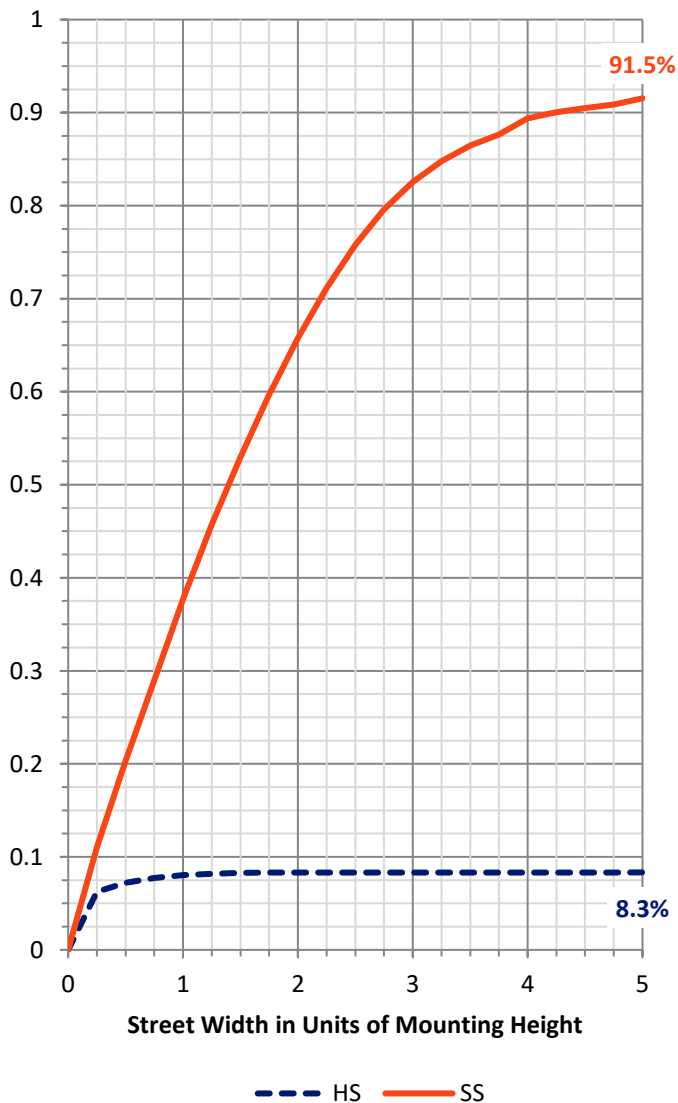
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	316.3	0.0	316.3
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	3459.7	0.0	3459.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	3776.0	0.0	3776.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.4	1.3
10°-20°	107.2	2.8
20°-30°	166.7	4.4
30°-40°	277.7	7.4
40°-50°	516.7	13.7
50°-60°	829.5	22.0
60°-70°	1115.7	29.5
70°-80°	662.0	17.5
80°-90°	51.2	1.4
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°	3776.0	100.0
0°-180°	3776.0	100.0



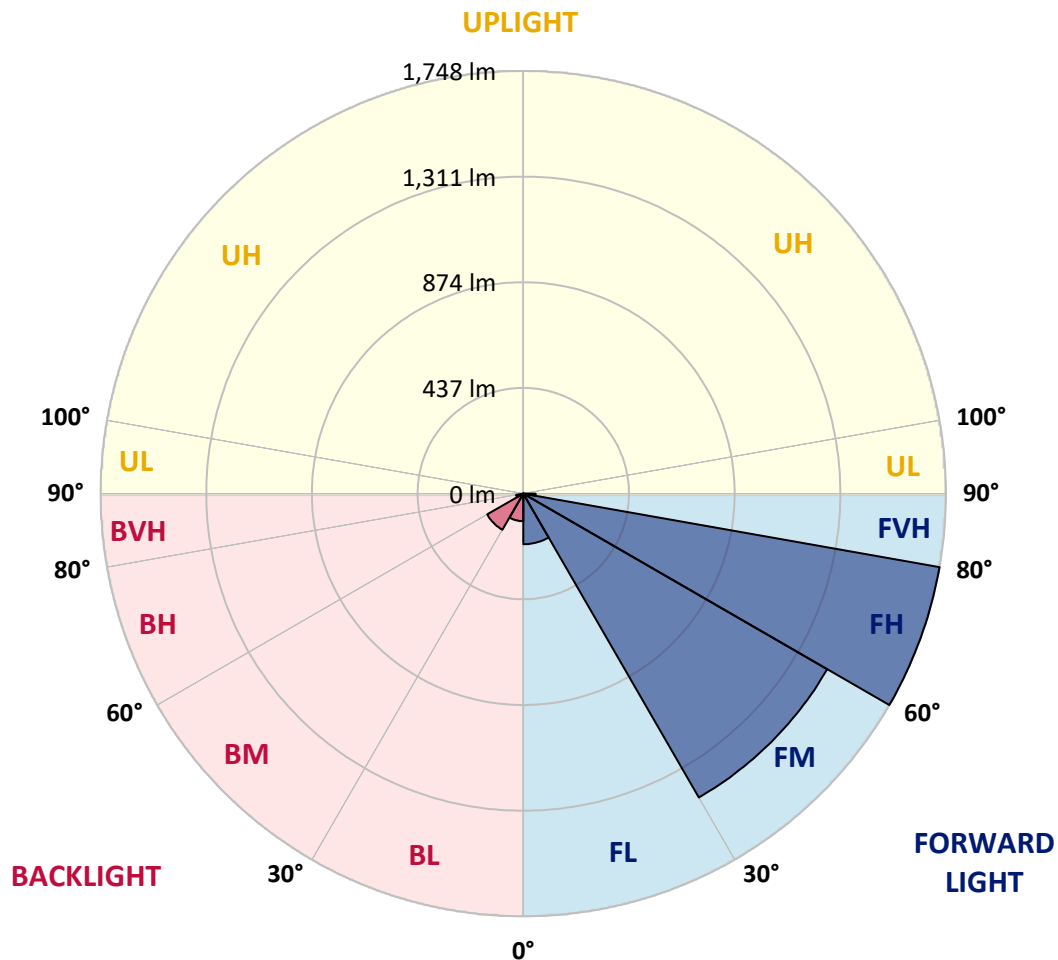
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	209.3	5.5			
FM (30°-60°)	1451.4	38.4			
FH (60°-80°)	1748.1	46.3			G1/1800
FVH (80°-90°)	51.0	1.3			G1/100
BL (0°-30°)	114.0	3.0	B1/500		
BM (30°-60°)	172.5	4.6	B0/220		
BH (60°-80°)	29.6	0.8	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2
2.5°	563.2	569.0	568.1	570.1	575.1	577.1	582.6	588.7	597.1	602.9	606.7
5°	504.3	508.7	509.3	519.4	524.3	529.8	546.1	563.8	583.5	599.1	609.6
7.5°	441.4	443.8	448.4	461.7	474.2	479.7	504.3	535.1	566.1	595.4	614.2
10°	389.6	392.2	400.6	414.8	426.4	433.6	467.8	506.4	549.8	593.3	620.9
12.5°	360.0	361.4	364.6	377.4	392.2	400.0	436.8	480.9	536.8	594.2	632.2
15°	358.0	357.4	353.6	358.8	372.2	380.3	416.2	463.5	525.2	597.1	645.5
17.5°	368.7	367.2	358.3	358.3	369.3	375.9	407.5	454.2	519.4	603.8	664.3
20°	385.2	382.9	368.1	367.0	377.7	384.6	412.7	454.8	520.6	616.2	689.6
22.5°	406.1	403.5	381.2	381.7	393.3	400.3	427.8	465.2	527.8	631.6	716.5
25°	433.3	430.4	404.1	402.9	415.1	421.2	450.1	483.8	538.0	650.7	751.9
27.5°	469.6	463.5	431.9	430.1	443.2	451.0	477.1	508.7	555.9	677.1	799.4
30°	499.4	492.7	462.6	458.0	471.9	478.0	504.9	542.3	591.3	723.2	865.2
32.5°	538.5	528.7	493.3	481.2	495.9	503.8	545.2	604.9	643.8	771.9	943.5
35°	626.7	620.6	577.4	534.8	533.9	543.8	604.6	668.1	697.7	847.8	1050.1
37.5°	752.7	748.4	702.6	645.5	629.0	624.3	676.8	737.7	783.8	952.2	1174.2
40°	899.1	889.0	846.9	798.5	777.1	763.5	762.0	841.2	896.2	1093.9	1303.5
42.5°	1004.0	985.5	934.5	931.0	926.4	912.2	871.0	992.5	1041.4	1246.4	1441.7
45°	1114.2	1086.1	1010.1	997.1	995.4	994.5	1035.6	1171.6	1199.7	1411.6	1583.8
47.5°	1199.7	1177.4	1115.1	1109.3	1116.5	1136.2	1253.3	1361.7	1355.9	1558.8	1702.9
50°	1313.6	1296.8	1227.5	1238.5	1275.9	1308.1	1498.8	1569.0	1484.3	1674.8	1789.5
52.5°	1448.1	1417.1	1352.7	1382.6	1440.0	1493.6	1759.4	1750.4	1574.5	1762.0	1854.2
55°	1564.6	1542.6	1520.6	1551.6	1637.4	1704.3	1994.8	1886.4	1640.0	1832.2	1882.6
57.5°	1761.7	1756.5	1733.9	1765.5	1869.5	1939.1	2205.5	1991.9	1682.0	1868.7	1849.3
60°	2053.3	2044.9	2002.9	2043.2	2178.8	2288.1	2399.7	2086.6	1691.6	1854.5	1753.3
62.5°	2404.0	2375.3	2339.4	2398.8	2584.9	2633.0	2582.6	2142.9	1655.9	1741.4	1522.0
65°	2731.6	2702.0	2702.9	2828.1	3030.7	3063.4	2795.9	2134.5	1551.6	1458.2	1122.6
67.5°	2982.3	2977.4	3012.7	3257.1	3522.0	3499.4	2986.6	2008.7	1242.3	945.2	596.5
70°	2995.0	3004.6	3106.1	3518.5	3787.5	3751.6	2970.4	1632.7	774.5	434.8	235.1
71°	2840.8	2905.2	3045.5	3510.4	3803.1	3756.5	2833.6	1367.5	568.1	303.2	169.6
72.5°	2420.8	2454.8	2757.9	3303.7	3679.4	3579.7	2486.6	958.5	363.8	185.5	97.4
75°	1333.3	1416.8	1846.9	2591.9	2942.9	2855.3	1620.6	455.4	181.4	101.4	40.3
77.5°	634.8	618.5	901.1	1541.4	1995.3	1990.7	816.5	202.3	105.8	68.7	20.3
80°	181.4	204.1	344.9	732.7	1107.8	1120.0	313.6	97.7	73.3	53.6	10.4
82.5°	54.8	55.9	126.7	324.1	551.0	519.4	117.7	49.9	52.8	42.6	6.1
85°	9.6	11.9	37.4	114.2	210.1	159.4	29.6	23.8	34.8	28.1	3.5
87.5°	0.6	0.9	12.5	13.0	18.6	10.7	5.2	3.5	7.5	7.5	2.0
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°	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2	607.2
2.5°	609.3	611.0	609.8	607.2	602.9	597.7	590.7	584.9	580.0	577.4	580.6
5°	613.0	615.4	609.6	596.5	576.8	555.4	531.0	512.2	497.4	492.7	491.0
7.5°	618.8	620.3	604.6	575.6	533.9	483.2	438.8	401.4	372.5	363.8	351.0
10°	626.4	625.5	595.9	542.0	468.7	392.5	323.8	272.8	234.2	220.3	219.1
12.5°	638.0	633.3	584.9	496.2	391.0	291.3	206.4	161.4	137.1	129.0	127.2
15°	652.5	641.4	567.5	442.6	299.4	188.1	127.2	113.6	110.4	109.9	109.3
17.5°	669.6	652.2	544.6	376.8	210.4	122.0	106.4	106.1	106.4	105.8	105.5
20°	692.7	663.5	517.4	298.8	139.1	102.9	101.4	101.4	101.7	101.4	101.4
22.5°	717.4	676.8	483.8	228.1	104.9	97.7	97.4	98.0	98.5	98.3	98.3
25°	747.8	694.2	439.4	156.2	93.9	93.3	93.6	94.8	95.9	96.2	95.9
27.5°	791.9	715.6	391.9	107.5	86.1	86.7	89.6	92.5	94.2	94.5	94.5
30°	841.4	739.4	329.9	87.2	79.7	79.7	83.2	88.7	92.5	93.0	93.3
32.5°	905.2	766.9	261.2	78.5	73.6	73.0	76.2	82.9	89.9	91.9	91.9
35°	984.0	799.4	194.2	73.0	69.3	67.8	69.6	75.1	84.1	89.9	90.4
37.5°	1076.5	830.1	142.0	68.1	65.2	63.2	64.3	68.7	75.9	84.6	87.0
40°	1162.0	857.4	106.1	64.1	61.2	59.7	60.6	62.6	68.7	76.8	78.3
42.5°	1255.3	878.5	84.3	59.7	57.1	56.5	56.5	57.4	61.4	66.1	66.4
45°	1348.4	886.1	70.7	54.5	52.8	53.3	53.0	52.5	54.2	53.6	53.6
47.5°	1414.8	877.1	58.6	49.6	49.6	50.4	49.0	47.0	46.1	42.6	42.9
50°	1460.3	844.3	48.1	43.8	46.1	47.2	44.3	41.2	38.0	34.2	33.3
52.5°	1479.1	786.1	39.4	36.2	40.9	42.3	38.8	35.1	30.1	27.0	26.1
55°	1466.9	714.2	32.8	29.6	34.5	36.2	32.8	28.4	22.9	19.4	18.8
57.5°	1413.3	628.4	27.8	23.5	27.5	28.7	26.4	21.7	16.2	12.8	12.8
60°	1320.6	539.7	22.6	18.6	20.6	22.3	20.0	15.7	11.0	7.8	7.2
62.5°	1132.5	438.3	18.3	14.5	14.5	15.9	13.9	11.3	7.0	4.1	3.8
65°	817.7	300.6	14.5	10.7	10.4	10.4	8.7	7.5	4.1	1.7	1.2
67.5°	444.3	169.6	11.6	8.1	7.2	7.0	5.5	4.3	1.7	0.3	0.0
70°	174.8	65.2	9.0	5.5	4.6	4.3	2.9	2.0	1.2	0.0	0.0
71°	118.5	44.9	7.8	4.6	3.8	3.2	2.3	1.7	0.9	0.0	0.0
72.5°	67.8	27.8	6.1	3.5	2.9	2.3	1.7	1.2	0.9	0.0	0.0
75°	29.6	14.2	3.8	2.6	2.0	1.4	1.2	0.9	0.3	0.0	0.0
77.5°	15.1	7.8	2.6	2.0	1.2	0.9	0.6	0.3	0.0	0.0	0.0
80°	8.4	4.1	1.7	1.2	0.9	0.6	0.3	0.3	0.0	0.0	0.0
82.5°	4.6	2.3	0.9	0.6	0.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	2.9	1.4	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	1.4	0.6	0.0	0.0	0.0	0.0	0.3	0.3	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)