

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: P450449

Luminaire Tested: **GALN-SA1B-727-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P450449
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA1B-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE IV WIDE OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3483 lumens
Efficiency: N/A
Efficacy: 79.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B0 - U0 - G1

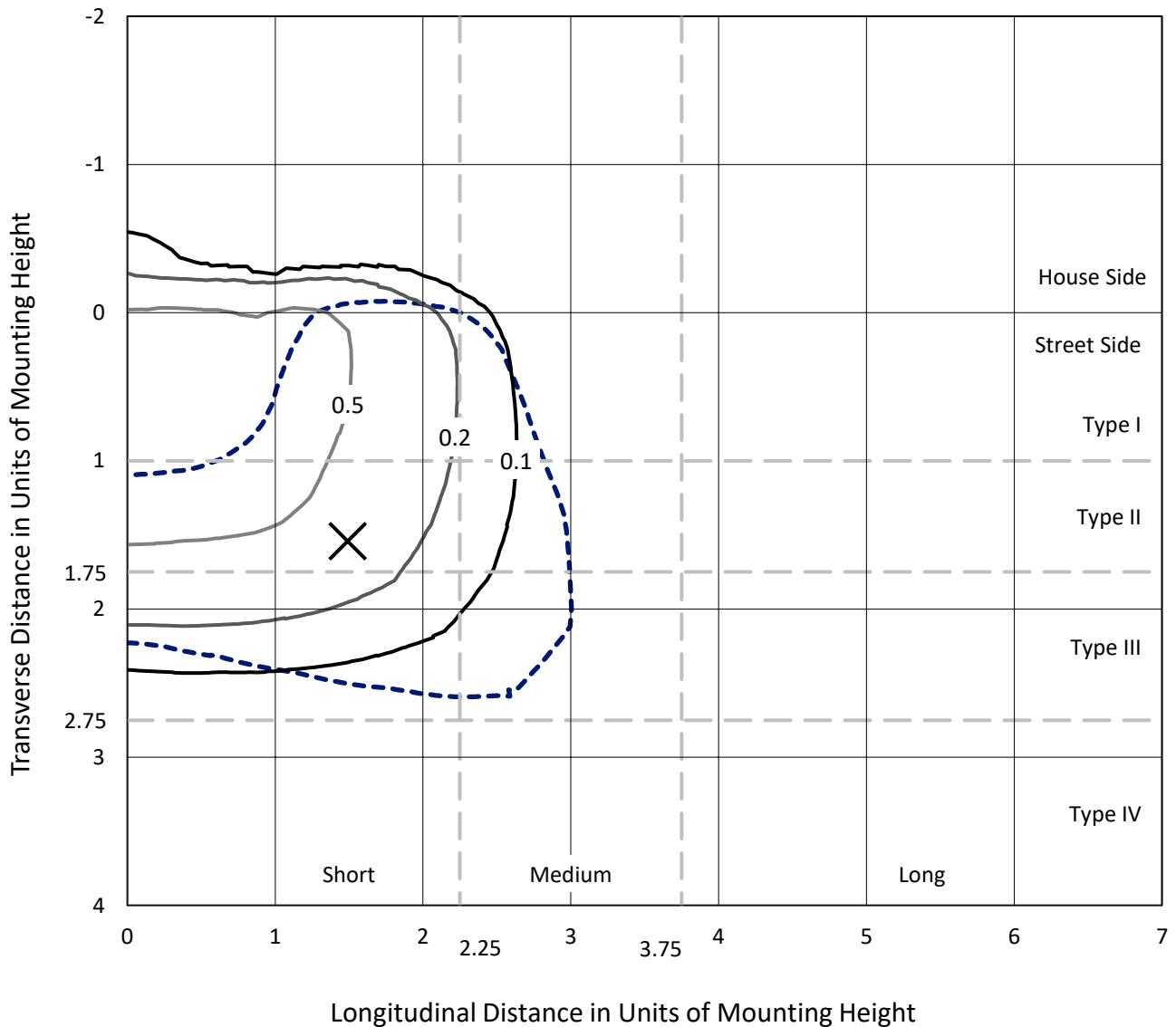
Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

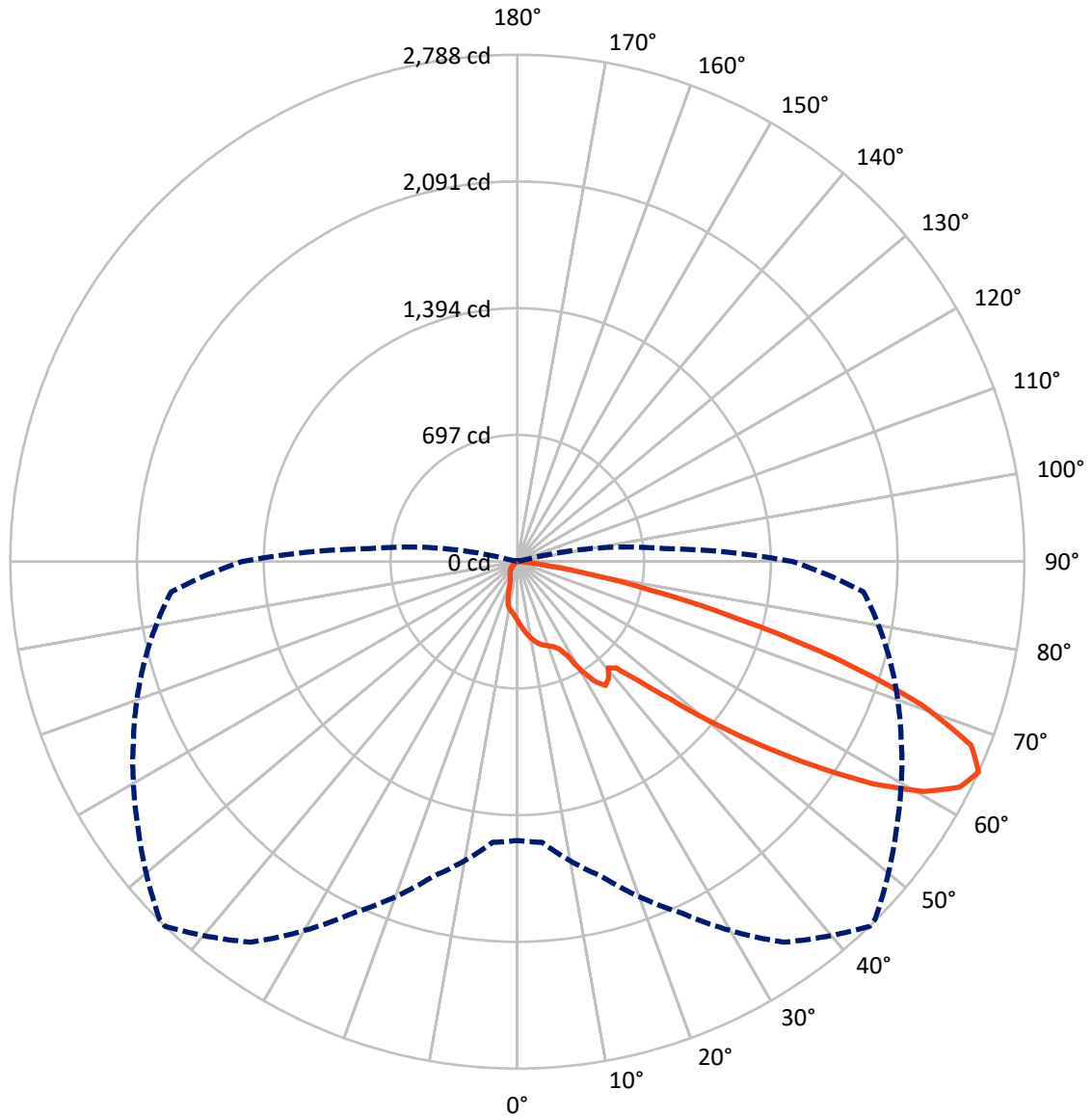
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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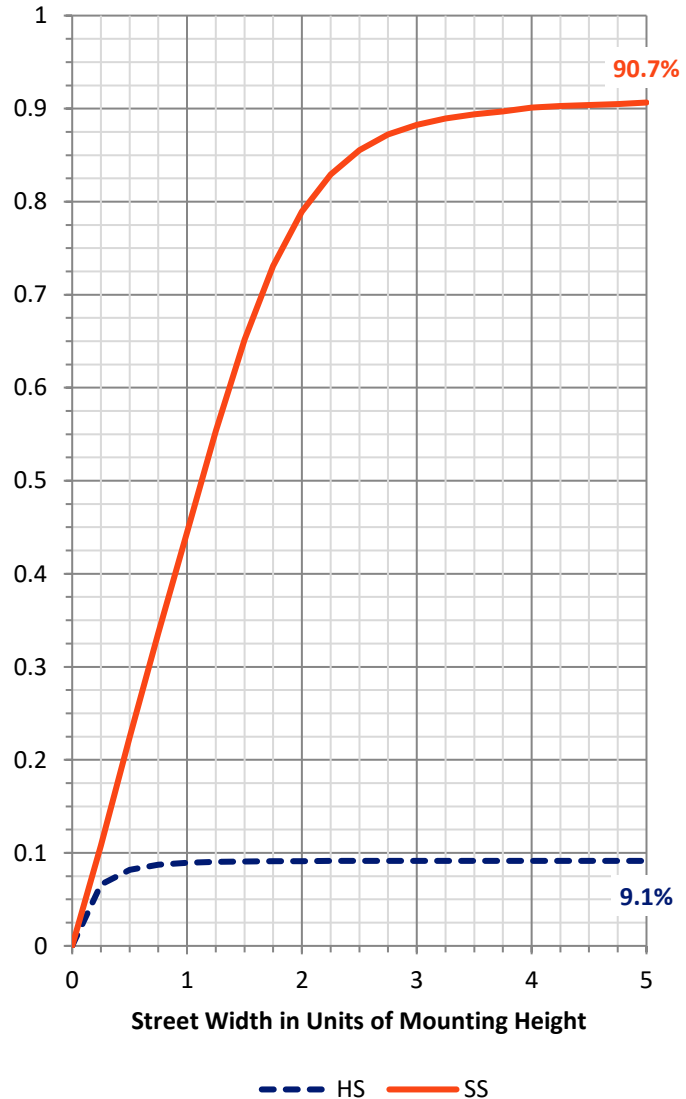
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	320.9	0.0	320.9
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	3162.1	0.0	3162.1
	% Fixture	90.8	0.0	90.8
Total	Lumens	3483.0	0.0	3483.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.2	0.9
10°-20°	97.0	2.8
20°-30°	164.5	4.7
30°-40°	273.6	7.9
40°-50°	477.7	13.7
50°-60°	933.2	26.8
60°-70°	1082.7	31.1
70°-80°	394.3	11.3
80°-90°	27.8	0.8
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°	3483.0	100.0
0°-180°	3483.0	100.0



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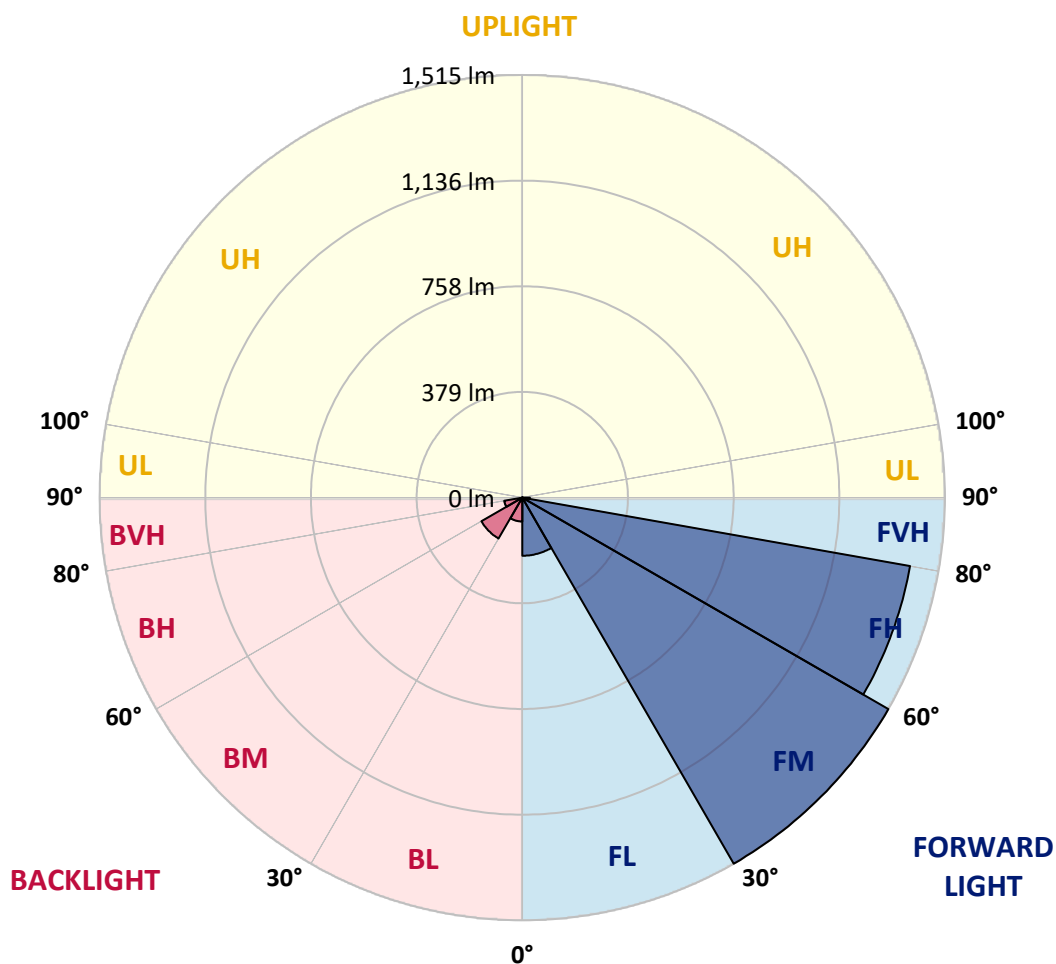
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	208.3	6.0			
FM (30°-60°)	1515.1	43.5			
FH (60°-80°)	1411.3	40.5			G1/1800
FVH (80°-90°)	27.4	0.8			G1/100
BL (0°-30°)	85.5	2.5	B0/110		
BM (30°-60°)	169.3	4.9	B0/220		
BH (60°-80°)	65.7	1.9	B0/110		G0/110
BVH (80°-90°)	0.4	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	324.2	324.2	324.2	324.2	324.2	324.2	324.2	324.2	324.2	324.2	324.2
2.5°	364.9	363.3	362.5	358.2	355.0	351.0	351.0	346.0	340.1	333.7	327.9
5°	405.6	402.9	399.5	395.8	388.3	377.7	377.7	367.0	354.8	343.9	331.9
7.5°	444.7	442.3	436.5	429.3	417.0	405.9	405.1	389.6	375.0	358.5	341.5
10°	479.1	477.2	472.1	458.3	445.5	430.9	430.6	413.3	396.3	376.1	355.0
12.5°	503.0	503.3	496.6	483.3	466.8	453.0	451.9	434.9	417.0	395.2	369.4
15°	520.0	520.0	513.1	498.2	483.3	471.1	470.0	455.1	436.7	413.1	385.1
17.5°	524.8	526.4	519.0	505.7	493.7	483.1	482.8	470.3	455.6	432.8	401.1
20°	523.0	524.6	518.7	508.3	500.1	494.0	493.2	488.1	474.5	453.0	418.1
22.5°	519.0	520.6	516.3	510.2	506.2	508.1	506.7	511.0	503.8	477.7	438.3
25°	519.8	521.4	518.2	514.7	518.2	529.6	533.1	551.5	545.1	509.1	460.2
27.5°	544.8	548.0	543.5	545.1	557.3	583.9	590.6	622.2	594.0	549.1	494.2
30°	600.4	598.3	589.8	597.5	640.1	696.5	694.6	689.6	645.4	595.1	534.7
32.5°	651.0	649.1	648.6	681.9	759.0	786.5	785.1	736.2	691.4	647.8	574.6
35°	671.5	664.3	662.7	743.3	872.4	836.2	828.0	755.3	747.3	705.3	615.3
37.5°	733.2	728.2	703.4	753.5	827.2	815.2	808.8	788.3	806.9	756.1	661.4
40°	860.4	846.3	824.0	775.0	763.0	768.1	774.5	830.6	877.5	825.6	722.8
42.5°	1018.5	1015.3	973.8	882.5	792.8	799.8	808.0	919.0	978.9	930.2	823.2
45°	1208.3	1212.8	1152.9	1045.1	927.5	933.4	945.3	1049.4	1116.2	1092.8	981.0
47.5°	1380.8	1377.3	1357.1	1245.0	1136.4	1123.4	1142.8	1216.8	1306.2	1310.0	1176.9
50°	1554.3	1572.6	1542.6	1498.7	1418.0	1390.6	1383.4	1419.6	1555.9	1538.0	1412.2
52.5°	1803.7	1813.2	1756.8	1745.6	1764.0	1675.1	1667.9	1676.7	1798.6	1737.4	1588.3
55°	1960.4	1954.8	1933.8	2021.1	2093.8	1982.8	1973.7	1938.3	2000.1	1878.2	1757.9
57.5°	2009.9	2017.9	2066.9	2224.7	2396.6	2302.4	2285.9	2185.3	2145.4	2009.4	1913.8
60°	1987.8	2002.5	2108.1	2342.9	2581.3	2567.2	2553.1	2384.1	2249.7	2119.0	2023.2
62.5°	1830.5	1851.0	2020.0	2321.8	2643.9	2732.0	2714.4	2508.1	2319.2	2172.3	2042.4
65°	1534.1	1549.2	1791.9	2131.0	2555.0	2788.4	2782.0	2547.0	2330.1	2123.6	1911.2
67.5°	1093.6	1145.2	1370.1	1795.9	2292.0	2692.0	2703.0	2500.4	2227.6	1913.0	1582.8
70°	687.5	722.6	883.9	1285.7	1837.5	2361.8	2397.7	2287.2	1933.3	1491.2	1059.5
72.5°	327.9	354.0	468.9	813.9	1296.9	1858.2	1886.7	1877.6	1494.9	939.5	546.7
75°	146.1	156.0	223.8	415.5	837.3	1249.0	1322.7	1335.0	934.2	459.6	212.6
77.5°	74.5	74.8	104.9	201.2	418.1	745.2	759.8	802.7	506.5	202.5	74.0
80°	39.7	42.3	55.6	95.0	216.9	367.0	365.1	401.3	224.6	99.3	24.8
82.5°	17.8	19.7	31.4	49.8	105.9	139.2	150.1	164.2	96.3	63.3	10.9
85°	5.3	6.4	15.4	25.0	38.3	40.2	45.0	58.0	54.6	45.0	5.6
87.5°	0.8	0.8	6.4	6.9	5.6	7.2	7.5	8.3	17.6	16.5	2.9
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°	324.2	324.2	324.2	324.2	324.2	324.2	324.2	324.2	324.2	324.2	324.2
2.5°	324.7	322.8	316.2	310.6	305.8	302.9	299.4	297.3	296.2	295.4	295.7
5°	326.0	321.5	310.1	301.0	294.1	286.6	281.6	278.7	277.3	275.2	275.2
7.5°	333.5	326.3	310.3	296.5	284.5	274.4	264.8	261.4	259.0	258.4	257.9
10°	344.1	335.1	313.3	294.1	277.1	263.2	249.6	237.7	228.4	222.8	222.0
12.5°	357.4	344.4	317.8	292.5	270.7	246.2	210.3	186.0	169.8	164.7	165.5
15°	369.7	355.6	322.3	291.2	259.0	204.1	163.4	135.7	127.5	126.7	127.0
17.5°	384.3	367.5	327.6	289.3	226.8	156.0	121.4	113.9	115.5	118.2	117.9
20°	399.5	380.3	334.0	278.1	181.0	117.4	107.3	108.1	110.4	112.8	113.4
22.5°	415.7	395.0	341.5	251.2	138.1	102.2	101.7	102.7	105.1	107.8	108.3
25°	438.1	413.3	347.1	216.1	104.6	94.5	95.5	97.4	99.5	102.5	103.0
27.5°	466.8	438.1	350.0	170.3	90.5	87.6	87.8	90.5	93.2	95.8	95.8
30°	504.1	467.6	344.1	128.8	83.6	80.9	79.8	81.4	84.9	87.6	87.8
32.5°	537.3	495.6	328.7	98.5	78.5	74.8	72.1	72.4	73.7	75.3	75.6
35°	570.6	522.7	302.3	82.8	73.2	68.9	64.9	62.8	61.7	60.9	61.7
37.5°	613.2	556.5	267.2	75.3	68.7	63.3	57.8	53.2	49.5	47.1	47.6
40°	668.0	603.3	225.7	70.5	64.4	58.0	50.6	44.7	38.3	36.2	35.1
42.5°	758.5	674.4	182.0	66.5	60.1	52.4	43.1	35.1	29.3	27.1	27.7
45°	901.4	764.1	140.3	62.3	55.9	46.3	36.2	27.7	22.9	21.8	22.4
47.5°	1090.9	880.1	108.1	57.5	50.6	39.7	28.5	21.8	18.9	18.6	18.4
50°	1269.2	988.2	90.2	52.2	44.2	33.0	23.4	18.4	16.5	16.2	16.2
52.5°	1430.5	1065.6	73.5	46.0	37.3	27.1	19.7	16.2	14.6	13.8	13.8
55°	1574.0	1116.2	59.6	38.6	29.3	21.6	17.0	14.6	12.8	11.7	11.4
57.5°	1682.3	1122.3	44.7	30.9	21.8	16.8	14.6	12.8	10.6	9.3	8.8
60°	1728.6	1069.4	33.0	23.4	16.2	13.3	11.7	10.4	8.0	6.7	6.4
62.5°	1682.0	966.4	24.5	17.8	12.5	9.8	8.3	7.7	5.6	4.0	3.7
65°	1515.2	817.6	19.4	13.6	9.3	7.2	5.3	5.1	3.5	1.9	1.6
67.5°	1213.9	640.3	15.4	10.1	6.7	4.8	3.5	3.2	1.9	0.5	0.5
70°	789.4	409.3	12.5	7.5	4.3	3.2	2.1	1.6	1.1	0.3	0.0
72.5°	390.4	191.4	10.1	5.9	2.9	1.6	0.8	0.5	0.8	0.0	0.0
75°	151.4	68.1	7.5	4.0	1.6	0.8	0.5	0.0	0.3	0.0	0.0
77.5°	50.3	22.6	4.5	2.1	1.1	0.5	0.0	0.0	0.0	0.0	0.0
80°	18.6	8.8	2.4	1.3	0.5	0.3	0.0	0.0	0.0	0.0	0.0
82.5°	7.5	3.5	1.6	1.1	0.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	3.7	2.1	1.1	0.8	0.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	2.7	1.6	1.1	0.8	0.5	0.3	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)