

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: P450971

Luminaire Tested: **GALN-SA1D-740-U-T4W-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P450971  
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-SA1D-740-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA 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: 5663 lumens  
Efficiency: N/A  
Efficacy: 87.1 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

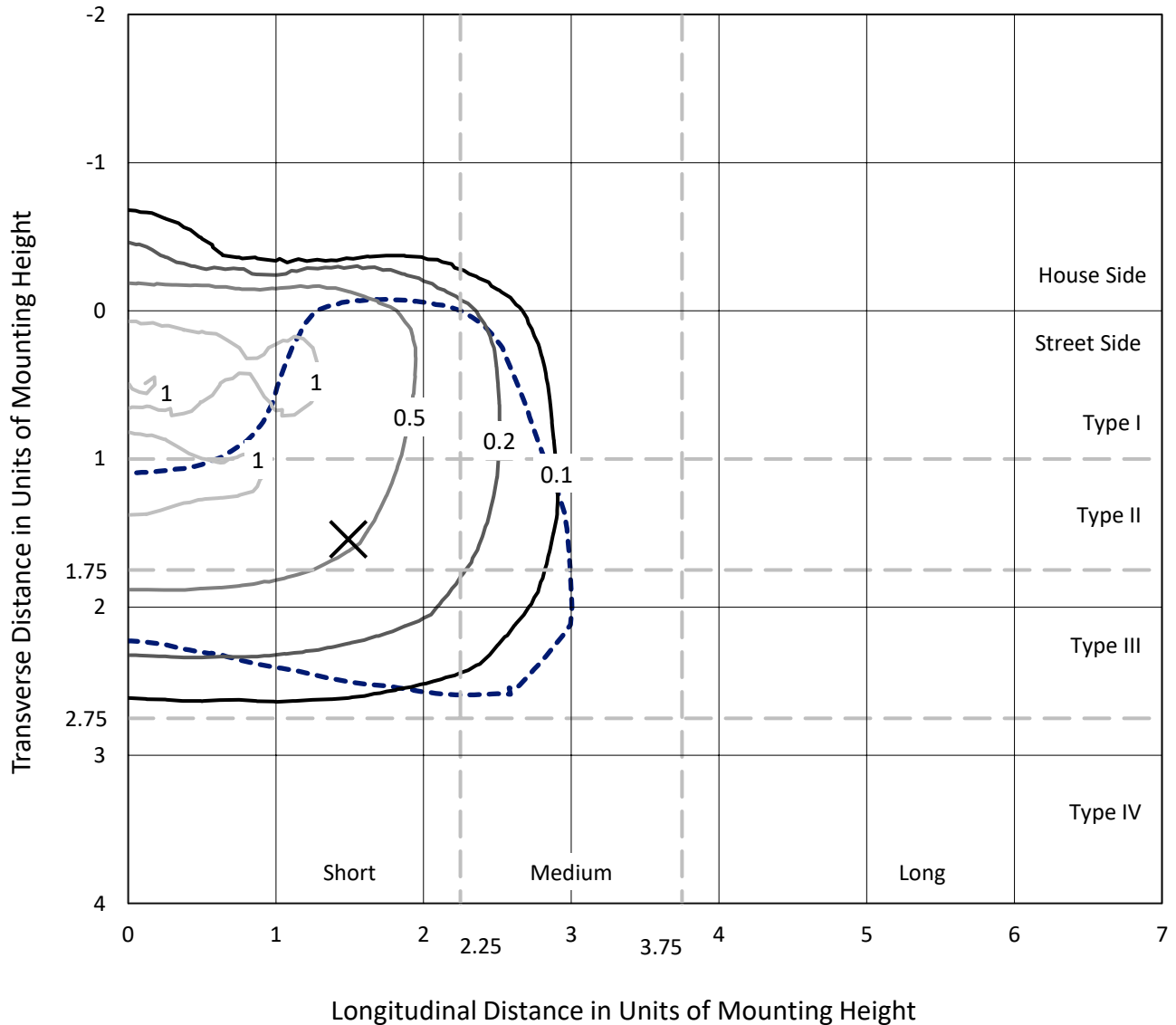
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

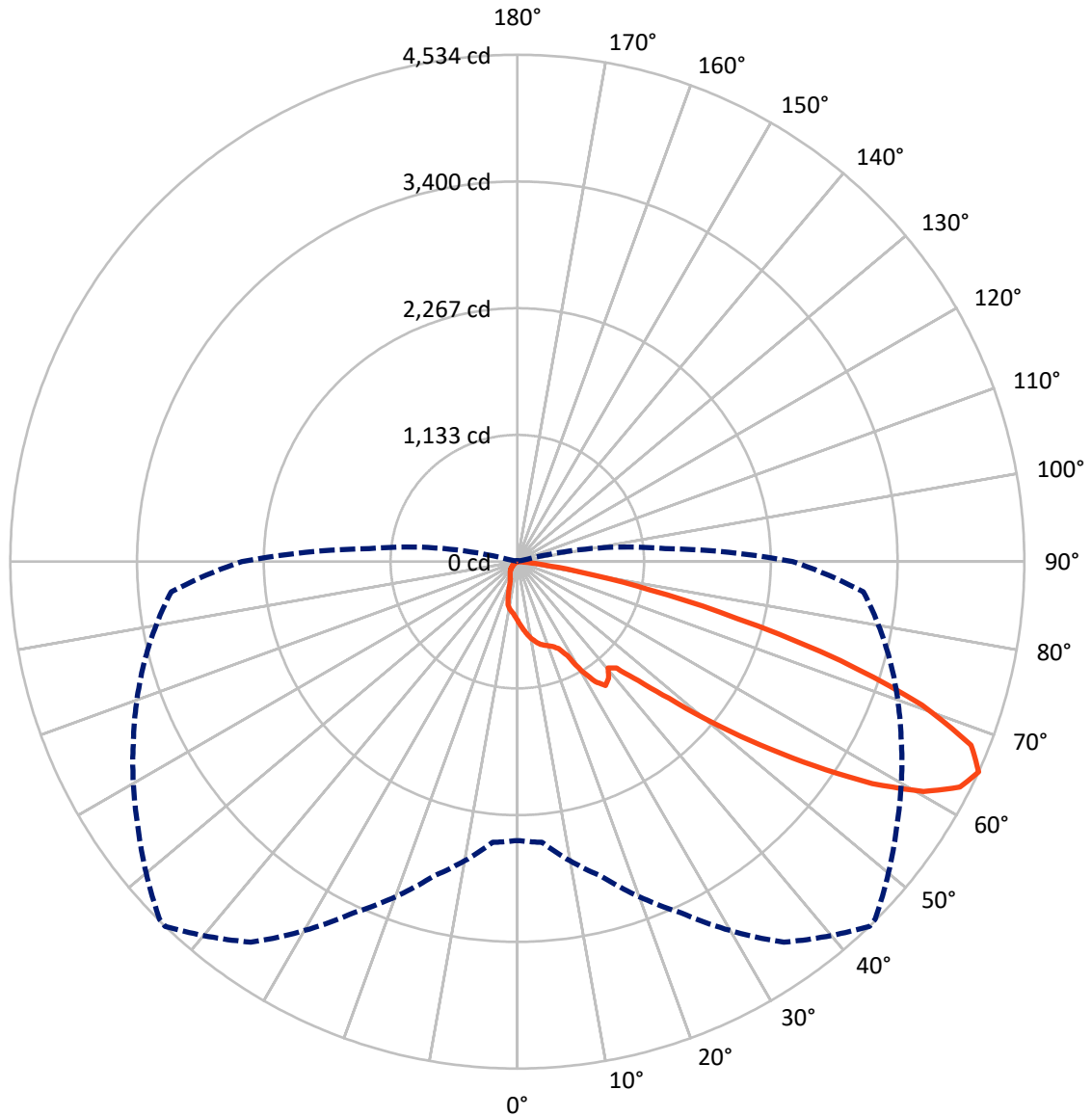
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.2 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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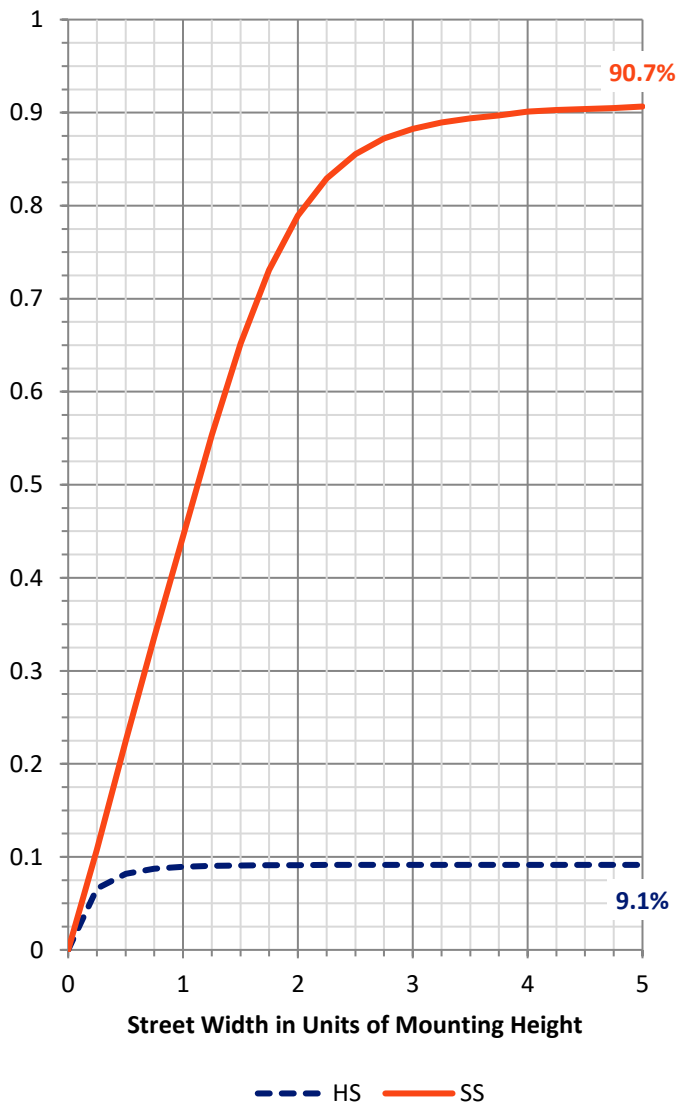
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	521.8	0.0	521.8
	% Fixture	9.2	0.0	9.2
<b>Street Side</b>	Lumens	5141.2	0.0	5141.2
	% Fixture	90.8	0.0	90.8
<b>Total</b>	Lumens	5663.0	0.0	5663.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	52.4	0.9
10°-20°	157.8	2.8
20°-30°	267.5	4.7
30°-40°	444.8	7.9
40°-50°	776.6	13.7
50°-60°	1517.3	26.8
60°-70°	1760.4	31.1
70°-80°	641.0	11.3
80°-90°	45.2	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°	5663.0	100.0
0°-180°	5663.0	100.0



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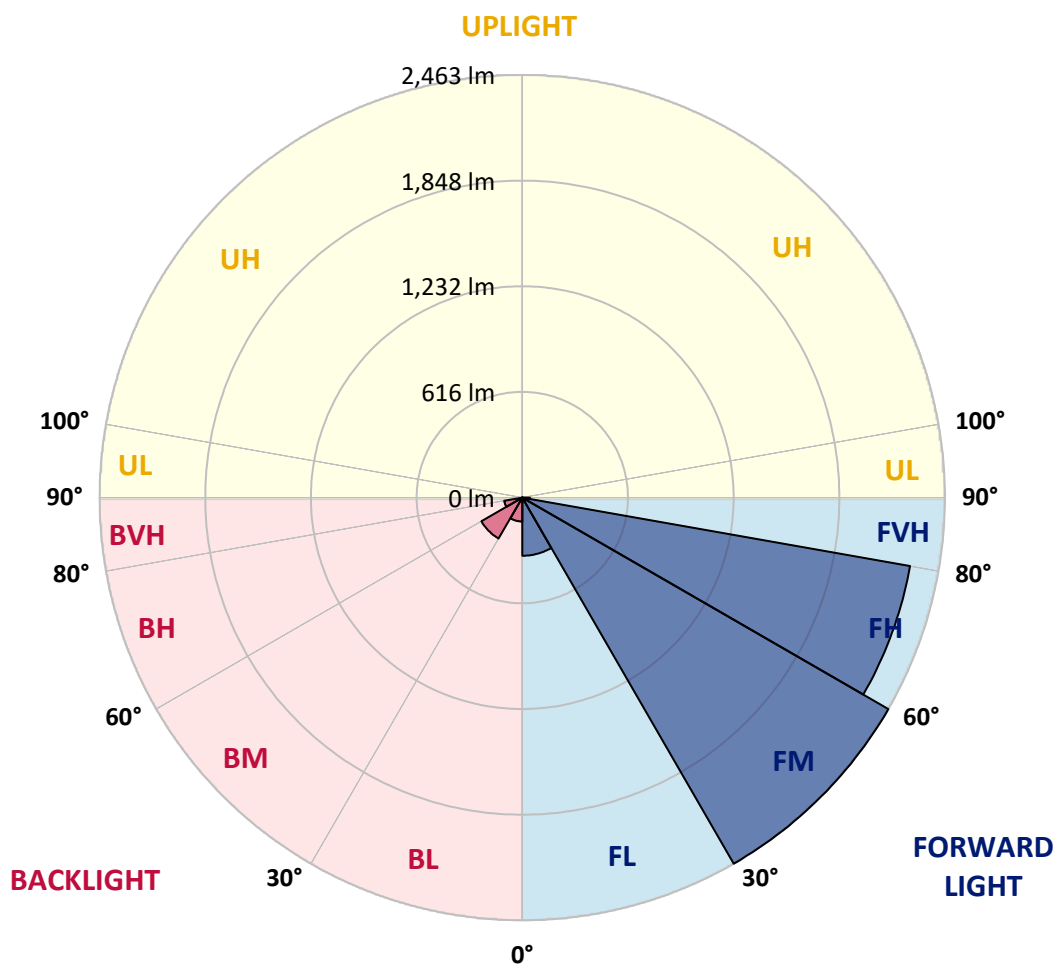
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	338.7	6.0			
FM (30°-60°)	2463.4	43.5			
FH (60°-80°)	2294.6	40.5			G2/5000
FVH (80°-90°)	44.6	0.8			G1/100
BL (0°-30°)	139.0	2.5	B1/500		
BM (30°-60°)	275.3	4.9	B1/1000		
BH (60°-80°)	106.8	1.9	B0/110		G0/110
BVH (80°-90°)	0.6	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-G2**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	593.3	590.7	589.4	582.4	577.3	570.8	570.8	562.5	553.0	542.6	533.1
5°	659.5	655.1	649.5	643.5	631.3	614.0	614.0	596.7	576.8	559.1	539.6
7.5°	723.1	719.2	709.7	698.0	678.1	659.9	658.6	633.5	609.7	582.9	555.2
10°	778.9	775.9	767.7	745.1	724.4	700.6	700.1	672.0	644.3	611.4	577.3
12.5°	817.8	818.3	807.5	785.8	759.0	736.5	734.8	707.1	678.1	642.6	600.6
15°	845.5	845.5	834.3	810.1	785.8	765.9	764.2	740.0	710.1	671.6	626.1
17.5°	853.3	855.9	843.8	822.2	802.7	785.4	785.0	764.6	740.8	703.6	652.1
20°	850.3	852.9	843.4	826.5	813.1	803.1	801.8	793.6	771.5	736.5	679.8
22.5°	843.8	846.4	839.5	829.5	823.0	826.1	823.9	830.8	819.1	776.7	712.7
25°	845.1	847.7	842.5	836.9	842.5	861.1	866.7	896.6	886.2	827.8	748.2
27.5°	885.8	891.0	883.6	886.2	906.1	949.4	960.2	1011.7	965.8	892.7	803.6
30°	976.2	972.8	958.9	971.5	1040.7	1132.4	1129.4	1121.2	1049.4	967.6	869.3
32.5°	1058.4	1055.4	1054.5	1108.6	1234.1	1278.7	1276.5	1196.9	1124.2	1053.2	934.2
35°	1091.8	1080.1	1077.5	1208.6	1418.5	1359.6	1346.2	1228.1	1215.1	1146.7	1000.5
37.5°	1192.2	1183.9	1143.7	1225.0	1344.9	1325.4	1315.0	1281.7	1312.0	1229.4	1075.3
40°	1399.0	1376.1	1339.7	1260.1	1240.6	1248.8	1259.2	1350.5	1426.7	1342.3	1175.3
42.5°	1656.0	1650.8	1583.3	1434.9	1289.1	1300.3	1313.7	1494.2	1591.6	1512.4	1338.4
45°	1964.6	1971.9	1874.6	1699.3	1508.0	1517.6	1537.0	1706.2	1814.8	1776.8	1595.0
47.5°	2245.0	2239.3	2206.5	2024.3	1847.7	1826.5	1858.1	1978.4	2123.8	2129.9	1913.5
50°	2527.1	2557.0	2508.1	2436.7	2305.5	2261.0	2249.3	2308.1	2529.7	2500.7	2296.0
52.5°	2932.6	2948.1	2856.4	2838.2	2868.1	2723.6	2711.9	2726.2	2924.3	2824.8	2582.5
55°	3187.4	3178.3	3144.2	3286.1	3404.2	3223.8	3209.1	3151.5	3251.9	3053.7	2858.1
57.5°	3267.9	3280.9	3360.5	3617.1	3896.7	3743.5	3716.7	3553.1	3488.2	3267.1	3111.7
60°	3232.0	3255.8	3427.6	3809.3	4197.0	4174.0	4151.1	3876.3	3657.8	3445.3	3289.6
62.5°	2976.3	3009.6	3284.4	3775.1	4298.7	4441.9	4413.3	4078.0	3770.7	3531.9	3320.7
65°	2494.2	2518.9	2913.5	3464.8	4154.1	4533.6	4523.3	4141.2	3788.5	3452.7	3107.4
67.5°	1778.1	1862.0	2227.7	2920.0	3726.6	4377.0	4394.7	4065.4	3621.9	3110.4	2573.4
70°	1117.7	1174.8	1437.1	2090.5	2987.5	3840.0	3898.4	3718.8	3143.3	2424.5	1722.7
72.5°	533.1	575.5	762.5	1323.3	2108.7	3021.3	3067.6	3052.9	2430.6	1527.5	888.8
75°	237.6	253.6	363.9	675.5	1361.3	2030.8	2150.6	2170.5	1518.9	747.3	345.7
77.5°	121.2	121.6	170.5	327.1	679.8	1211.6	1235.4	1305.1	823.5	329.3	120.3
80°	64.5	68.8	90.4	154.5	352.7	596.7	593.7	652.5	365.2	161.4	40.2
82.5°	29.0	32.0	51.1	80.9	172.2	226.3	244.1	267.0	156.6	103.0	17.7
85°	8.7	10.4	25.1	40.7	62.3	65.3	73.1	94.3	88.7	73.1	9.1
87.5°	1.3	1.3	10.4	11.3	9.1	11.7	12.1	13.4	28.6	26.8	4.8
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°	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1	527.1
2.5°	527.9	524.9	514.1	505.0	497.2	492.4	486.8	483.4	481.6	480.3	480.8
5°	530.1	522.7	504.1	489.4	478.2	466.0	457.8	453.1	450.9	447.4	447.4
7.5°	542.2	530.5	504.6	482.1	462.6	446.1	430.6	424.9	421.0	420.2	419.3
10°	559.5	544.8	509.3	478.2	450.5	428.0	405.9	386.4	371.3	362.2	360.9
12.5°	581.1	559.9	516.7	475.6	440.1	400.3	341.9	302.5	276.1	267.9	269.2
15°	601.1	578.1	524.0	473.4	421.0	331.9	265.7	220.7	207.3	206.0	206.4
17.5°	624.9	597.6	532.7	470.4	368.7	253.6	197.3	185.2	187.8	192.1	191.7
20°	649.5	618.4	543.1	452.2	294.3	190.8	174.4	175.7	179.6	183.5	184.3
22.5°	675.9	642.2	555.2	408.5	224.6	166.2	165.3	167.0	170.9	175.3	176.1
25°	712.3	672.0	564.3	351.4	170.1	153.6	155.3	158.4	161.8	166.6	167.5
27.5°	759.0	712.3	569.0	276.9	147.1	142.4	142.8	147.1	151.5	155.8	155.8
30°	819.6	760.3	559.5	209.4	135.9	131.5	129.8	132.4	138.0	142.4	142.8
32.5°	873.7	805.7	534.4	160.1	127.7	121.6	117.3	117.7	119.9	122.5	122.9
35°	927.8	849.9	491.6	134.6	119.0	112.1	105.6	102.1	100.4	99.1	100.4
37.5°	997.0	904.8	434.5	122.5	111.6	103.0	93.9	86.5	80.5	76.6	77.5
40°	1086.1	981.0	366.9	114.7	104.7	94.3	82.2	72.7	62.3	58.9	57.1
42.5°	1233.3	1096.5	296.0	108.2	97.8	85.2	70.1	57.1	47.6	44.1	45.0
45°	1465.6	1242.3	228.0	101.3	90.9	75.3	58.9	45.0	37.2	35.5	36.3
47.5°	1773.7	1431.0	175.7	93.5	82.2	64.5	46.3	35.5	30.7	30.3	29.9
50°	2063.7	1606.7	146.7	84.8	71.8	53.7	38.1	29.9	26.8	26.4	26.4
52.5°	2325.9	1732.6	119.4	74.9	60.6	44.1	32.0	26.4	23.8	22.5	22.5
55°	2559.1	1814.8	96.9	62.7	47.6	35.1	27.7	23.8	20.8	19.0	18.6
57.5°	2735.2	1824.8	72.7	50.2	35.5	27.3	23.8	20.8	17.3	15.1	14.3
60°	2810.5	1738.7	53.7	38.1	26.4	21.6	19.0	16.9	13.0	10.8	10.4
62.5°	2734.8	1571.2	39.8	29.0	20.3	16.0	13.4	12.5	9.1	6.5	6.1
65°	2463.5	1329.3	31.6	22.1	15.1	11.7	8.7	8.2	5.6	3.0	2.6
67.5°	1973.6	1041.1	25.1	16.4	10.8	7.8	5.6	5.2	3.0	0.9	0.9
70°	1283.5	665.5	20.3	12.1	6.9	5.2	3.5	2.6	1.7	0.4	0.0
72.5°	634.8	311.1	16.4	9.5	4.8	2.6	1.3	0.9	1.3	0.0	0.0
75°	246.2	110.8	12.1	6.5	2.6	1.3	0.9	0.0	0.4	0.0	0.0
77.5°	81.8	36.8	7.4	3.5	1.7	0.9	0.0	0.0	0.0	0.0	0.0
80°	30.3	14.3	3.9	2.2	0.9	0.4	0.0	0.0	0.0	0.0	0.0
82.5°	12.1	5.6	2.6	1.7	0.9	0.0	0.0	0.0	0.0	0.0	0.0
85°	6.1	3.5	1.7	1.3	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	4.3	2.6	1.7	1.3	0.9	0.4	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)