

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: P526837

Luminaire Tested: **GALN-SA1D-740-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P526837  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA1D-740-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 4000K, 1200mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5177 lumens  
Efficiency: N/A  
Efficacy: 79.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B1 - U0 - G0

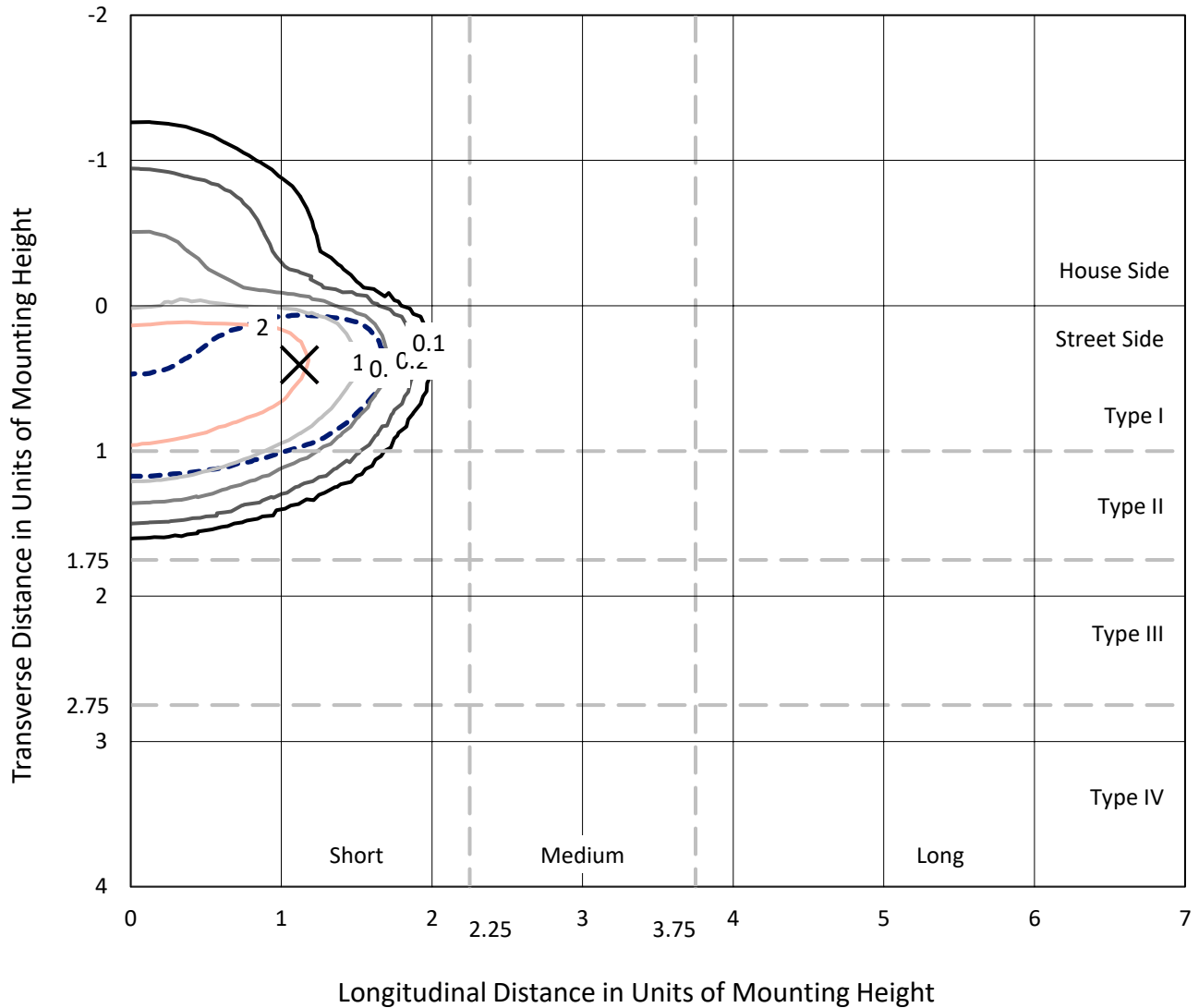
Input Watts (W): 65  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

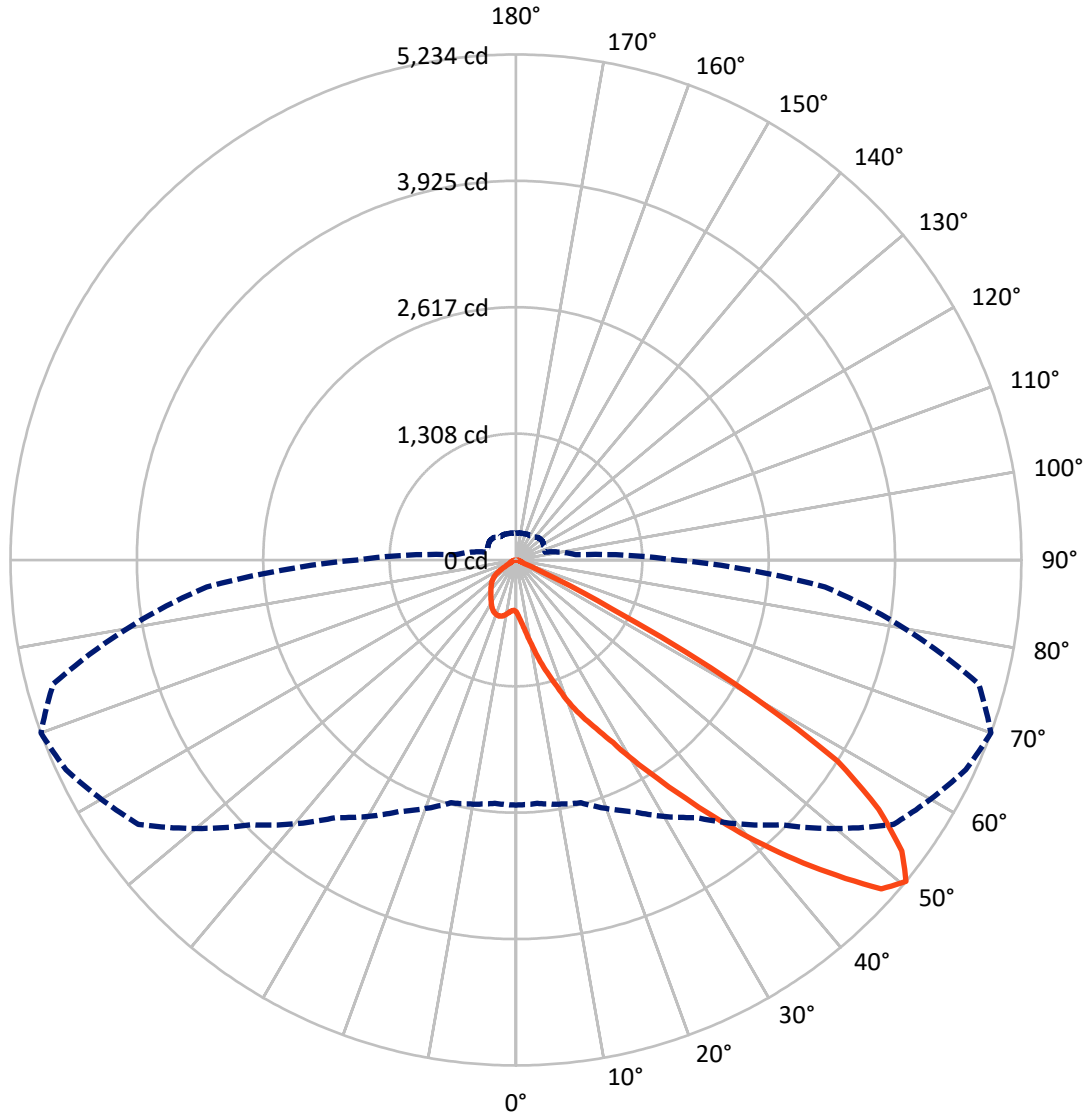
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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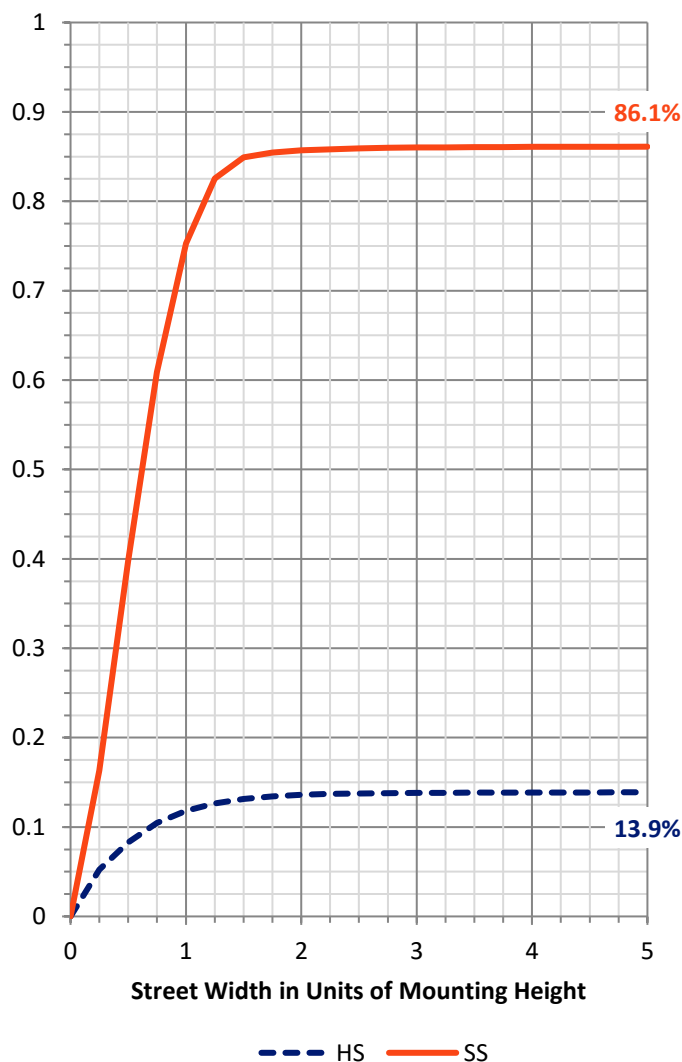
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	723.0	0.0	723.0
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	4454.0	0.0	4454.0
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	5177.0	0.0	5177.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	69.7	1.3
10°-20°	301.6	5.8
20°-30°	632.8	12.2
30°-40°	1090.7	21.1
40°-50°	1594.0	30.8
50°-60°	1241.5	24.0
60°-70°	210.3	4.1
70°-80°	28.9	0.6
80°-90°	7.5	0.1
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°	5177.0	100.0
0°-180°	5177.0	100.0

**Coefficient of Utilization**



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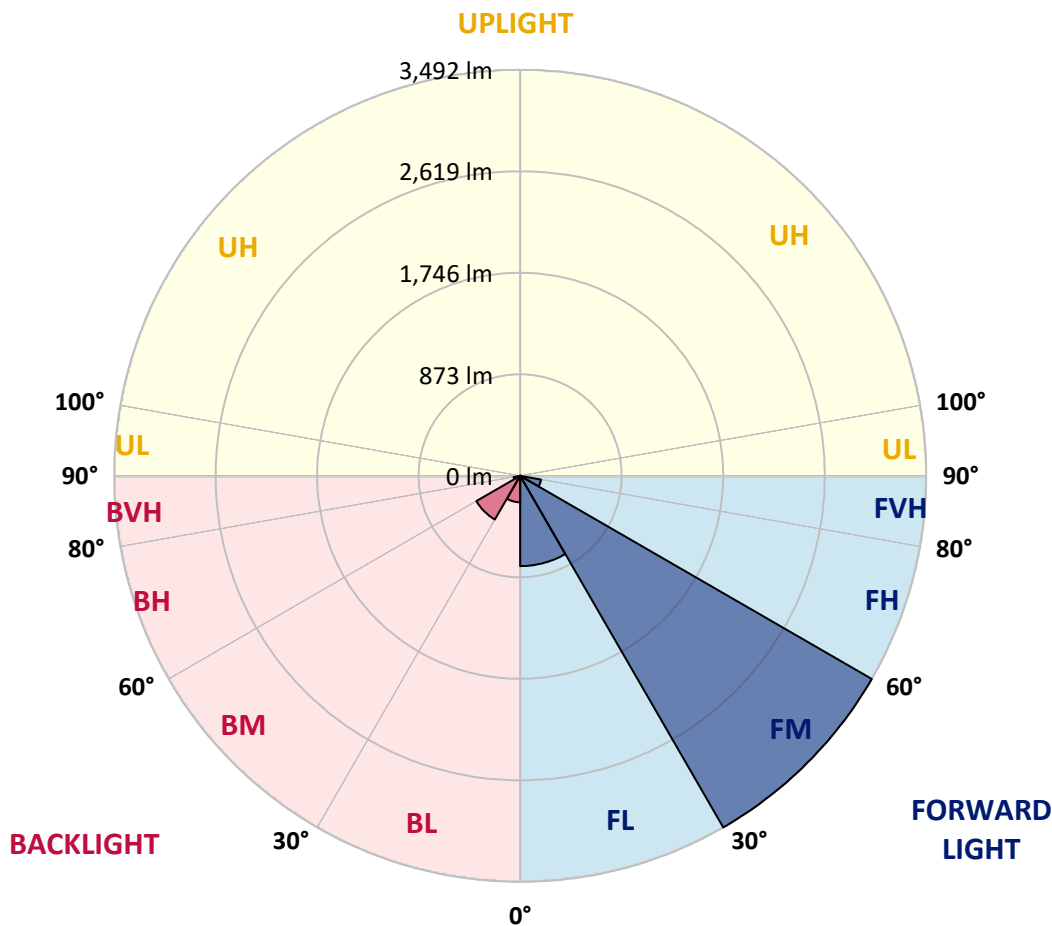
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	776.6	15.0			
FM (30°-60°)	3491.8	67.4			
FH (60°-80°)	182.1	3.5			G0/660
FVH (80°-90°)	3.5	0.1			G0/10
BL (0°-30°)	227.5	4.4	B1/500		
BM (30°-60°)	434.4	8.4	B1/1000		
BH (60°-80°)	57.1	1.1	B0/110		G0/110
BVH (80°-90°)	4.0	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G0**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	536.2	536.2	536.2	536.2	536.2	536.2	536.2	536.2	536.2	536.2	536.2
2.5°	702.2	697.1	686.0	665.6	657.1	636.7	624.8	601.8	587.3	571.1	553.3
5°	989.1	962.7	946.5	923.5	856.3	814.6	745.6	686.9	659.7	629.9	589.0
7.5°	1285.3	1268.2	1246.1	1196.7	1150.8	1064.0	945.6	816.3	760.9	709.9	629.0
10°	1530.4	1482.7	1480.2	1443.6	1393.4	1289.5	1147.4	986.5	887.8	812.9	686.0
12.5°	1701.5	1658.1	1677.7	1673.4	1626.6	1531.2	1367.0	1154.2	1051.2	934.6	744.8
15°	1857.2	1839.4	1833.4	1828.3	1809.6	1738.9	1591.7	1358.5	1209.5	1069.1	811.2
17.5°	2009.6	1963.6	1985.8	1990.0	1988.3	1924.5	1786.6	1552.5	1377.2	1211.2	881.0
20°	2144.9	2149.2	2119.4	2113.4	2108.3	2105.8	1971.3	1744.9	1583.2	1360.2	972.0
22.5°	2318.6	2288.8	2315.2	2298.2	2265.0	2244.5	2141.5	1915.1	1761.9	1539.8	1064.8
25°	2523.7	2547.5	2485.4	2478.6	2442.0	2371.4	2278.6	2105.8	1933.9	1706.6	1165.2
27.5°	2776.5	2734.8	2718.6	2681.2	2614.8	2585.0	2476.0	2302.4	2141.5	1881.9	1262.3
30°	2993.6	2982.5	2901.6	2857.4	2799.5	2798.6	2646.3	2568.8	2412.2	2156.9	1395.9
32.5°	3170.6	3122.1	3092.3	3061.6	3014.8	3027.6	2899.1	2858.2	2700.8	2412.2	1553.4
35°	3288.9	3254.0	3236.1	3189.3	3175.7	3232.7	3179.1	3162.1	3032.7	2771.4	1738.1
37.5°	3326.4	3337.4	3334.0	3275.3	3304.2	3458.3	3527.2	3483.0	3414.9	3150.2	1938.1
40°	3359.6	3367.2	3350.2	3419.1	3501.7	3677.0	3926.4	3853.2	3827.7	3534.0	2216.4
42.5°	3378.3	3372.3	3372.3	3491.5	3616.6	3969.0	4312.0	4263.5	4243.9	3942.6	2538.2
45°	3297.4	3239.5	3301.7	3463.4	3715.3	4112.8	4620.1	4687.4	4659.3	4428.6	2914.4
47.5°	2995.3	3031.0	3065.9	3282.1	3595.3	4068.6	4809.1	5038.1	5090.0	4837.2	3161.2
50°	2538.2	2530.5	2602.9	2875.2	3255.7	3877.9	4772.5	5139.3	5233.8	4959.8	3213.2
52.5°	1846.2	1902.4	1980.7	2251.3	2702.5	3384.2	4300.1	4878.0	5004.0	4809.1	3179.1
55°	1075.0	1012.9	1189.1	1418.0	1843.6	2552.7	3635.3	4323.9	4557.1	4535.0	3007.2
57.5°	430.7	417.1	477.5	643.5	961.8	1582.3	2643.7	3552.8	3926.4	4153.7	2642.9
60°	189.0	184.7	217.0	262.2	393.2	729.5	1446.1	2209.6	2599.5	2902.5	1818.9
62.5°	136.2	134.5	150.7	166.8	207.7	317.5	607.7	890.3	1109.9	1340.6	814.6
65°	109.8	114.1	125.1	133.6	153.2	176.2	214.5	247.7	303.9	314.9	179.6
67.5°	89.4	92.8	103.0	112.4	115.8	95.3	98.7	86.8	86.8	77.5	62.1
70°	65.5	66.4	78.3	89.4	71.5	38.3	67.2	67.2	60.4	57.9	52.8
72.5°	48.5	49.4	58.7	55.3	28.1	23.8	49.4	54.5	49.4	46.8	42.6
75°	35.7	36.6	30.6	12.8	11.9	15.3	28.9	37.5	35.7	34.9	32.3
77.5°	6.8	5.1	4.3	6.0	8.5	12.8	18.7	23.0	23.8	25.5	23.8
80°	0.9	0.9	2.6	5.1	9.4	13.6	19.6	22.1	23.0	23.8	22.1
82.5°	0.0	0.9	2.6	5.1	9.4	12.8	17.0	19.6	21.3	22.1	21.3
85°	0.0	0.9	1.7	4.3	7.7	9.4	8.5	6.0	5.1	6.0	4.3
87.5°	0.0	0.0	0.9	0.9	1.7	1.7	1.7	1.7	1.7	1.7	1.7
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°	536.2	536.2	536.2	536.2	536.2	536.2	536.2	536.2	536.2	536.2	536.2
2.5°	543.0	539.6	527.7	515.0	503.9	509.0	503.9	499.6	501.3	499.6	497.9
5°	572.8	557.5	532.0	520.9	511.6	510.7	508.1	507.3	508.1	508.1	500.5
7.5°	600.9	576.2	549.0	537.1	526.0	526.9	520.9	520.9	520.1	515.8	514.1
10°	643.5	610.3	575.4	554.1	540.5	537.9	532.0	526.0	526.0	526.0	517.5
12.5°	690.3	648.6	600.9	576.2	560.1	547.3	537.9	536.2	526.9	525.2	520.9
15°	731.2	678.4	617.9	583.9	563.5	546.4	532.0	522.6	518.4	515.8	512.4
17.5°	771.2	703.9	627.3	583.9	561.8	542.2	526.9	518.4	508.1	509.8	503.0
20°	824.8	731.2	629.9	572.8	545.6	526.9	506.4	502.2	496.2	491.1	492.8
22.5°	876.7	750.7	622.2	559.2	520.1	497.9	487.7	482.6	480.1	475.8	469.8
25°	923.5	772.0	610.3	534.5	492.8	476.7	467.3	466.4	460.5	460.5	449.4
27.5°	971.2	779.7	589.9	505.6	469.0	459.6	455.4	453.7	451.1	445.2	437.5
30°	1025.7	782.2	560.1	475.8	447.7	437.5	443.5	447.7	436.6	425.6	429.0
32.5°	1070.8	776.3	524.3	447.7	432.4	427.3	439.2	443.5	430.7	418.8	412.8
35°	1125.2	761.8	489.4	425.6	417.1	427.3	437.5	437.5	412.0	397.5	394.1
37.5°	1207.8	745.6	457.1	406.9	400.9	422.2	435.8	426.4	386.4	368.6	364.3
40°	1296.3	735.4	425.6	388.1	392.4	413.7	421.3	392.4	351.5	340.5	337.1
42.5°	1424.9	715.0	397.5	372.0	384.7	401.8	401.8	349.8	334.5	328.6	327.7
45°	1584.9	700.5	372.8	358.3	373.7	377.9	364.3	327.7	316.6	314.9	315.8
47.5°	1663.2	672.4	347.3	342.2	353.2	354.1	318.3	309.8	300.5	297.9	296.2
50°	1651.3	622.2	314.1	320.9	336.2	327.7	290.2	292.0	283.4	282.6	278.3
52.5°	1567.8	543.0	280.9	297.1	314.1	289.4	267.3	265.6	265.6	254.5	250.2
55°	1390.0	437.5	240.9	261.3	281.7	243.4	237.5	235.8	231.5	221.3	218.7
57.5°	1100.6	320.9	181.3	203.4	239.2	206.8	206.0	198.3	187.3	179.6	179.6
60°	654.5	184.7	114.1	124.3	158.3	167.7	186.4	183.0	164.3	152.4	149.0
62.5°	298.8	95.3	72.3	74.1	85.1	108.9	146.4	169.4	143.0	122.6	120.9
65°	100.4	70.6	59.6	57.0	58.7	65.5	87.7	120.0	114.1	94.5	91.1
67.5°	61.3	63.0	56.2	51.9	51.9	51.1	50.2	54.5	67.2	65.5	66.4
70°	52.8	57.9	51.9	46.8	45.1	42.6	35.7	29.8	25.5	29.8	31.5
72.5°	42.6	46.0	44.3	40.0	35.7	32.3	25.5	19.6	14.5	12.8	12.8
75°	31.5	34.0	35.7	30.6	27.2	23.0	18.7	12.8	7.7	5.1	5.1
77.5°	23.0	25.5	26.4	23.8	20.4	16.2	11.9	8.5	4.3	1.7	1.7
80°	19.6	23.0	25.5	23.8	21.3	15.3	11.1	6.0	3.4	0.9	0.9
82.5°	18.7	23.0	25.5	23.0	20.4	14.5	11.1	6.8	2.6	0.9	0.9
85°	4.3	6.0	7.7	9.4	11.1	11.1	8.5	5.1	2.6	0.9	0.9
87.5°	1.7	1.7	1.7	1.7	1.7	1.7	1.7	1.7	0.9	0.9	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)