

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: P527383

Luminaire Tested: **GALN-SA2B-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527383
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-SA2B-827-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5563 lumens
Efficiency: N/A
Efficacy: 67.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

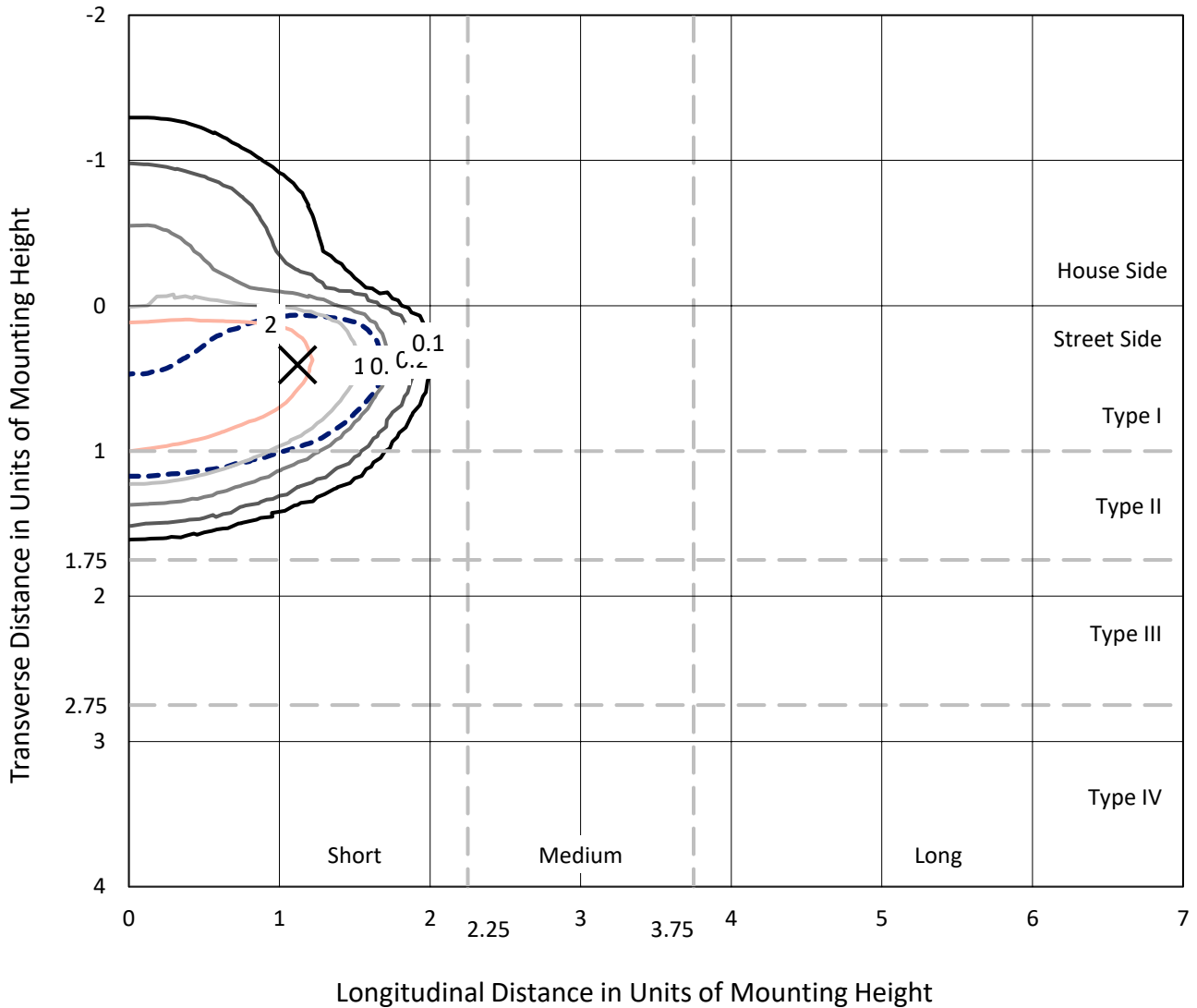
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

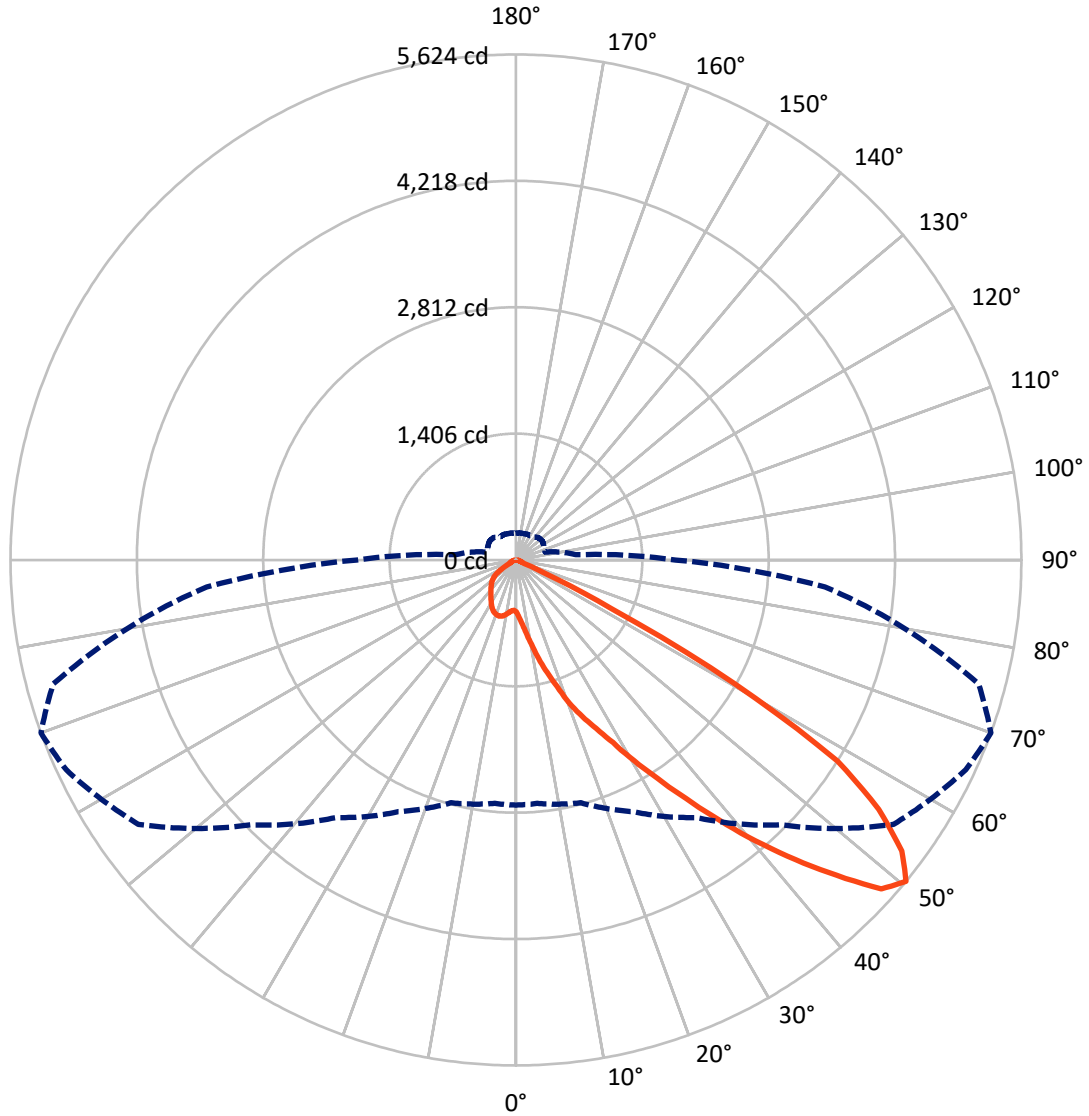
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.3 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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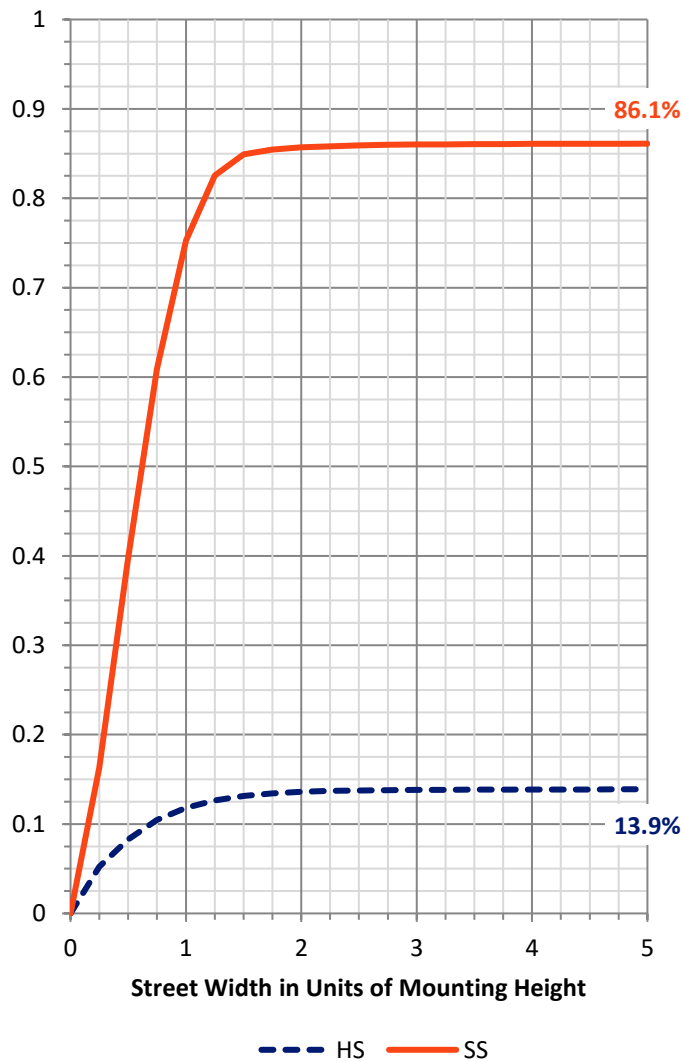
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	776.9	0.0	776.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	4786.1	0.0	4786.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	5563.0	0.0	5563.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.9	1.3
10°-20°	324.1	5.8
20°-30°	679.9	12.2
30°-40°	1172.0	21.1
40°-50°	1712.9	30.8
50°-60°	1334.0	24.0
60°-70°	226.0	4.1
70°-80°	31.0	0.6
80°-90°	8.0	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°	5563.0	100.0
0°-180°	5563.0	100.0

Coefficient of Utilization



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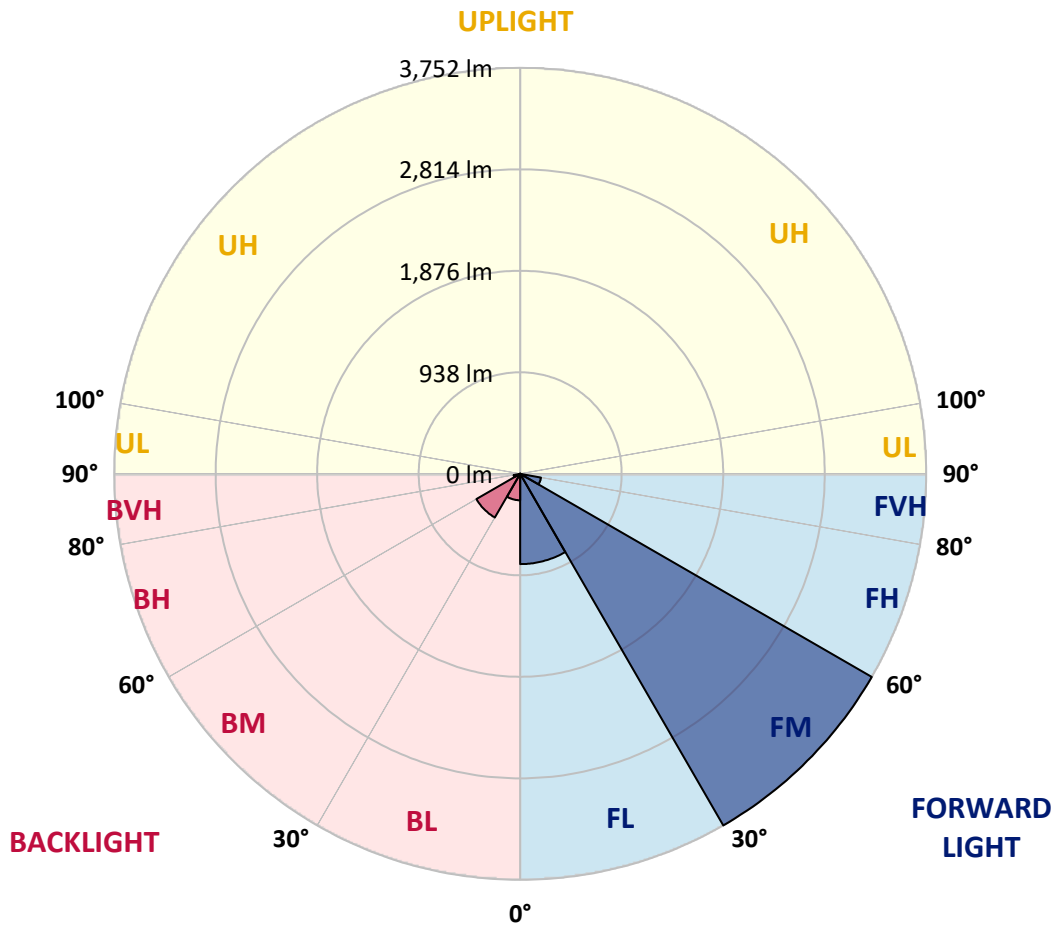
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	834.5	15.0			
FM (30°-60°)	3752.1	67.4			
FH (60°-80°)	195.7	3.5			G0/660
FVH (80°-90°)	3.7	0.1			G0/10
BL (0°-30°)	244.5	4.4	B1/500		
BM (30°-60°)	466.7	8.4	B1/1000		
BH (60°-80°)	61.4	1.1	B0/110		G0/110
BVH (80°-90°)	4.3	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°	576.2	576.2	576.2	576.2	576.2	576.2	576.2	576.2	576.2	576.2	576.2
2.5°	754.6	749.1	737.2	715.2	706.1	684.1	671.3	646.6	631.1	613.7	594.5
5°	1062.8	1034.4	1017.1	992.4	920.1	875.3	801.2	738.1	708.8	676.8	632.9
7.5°	1381.1	1362.8	1339.0	1286.0	1236.6	1143.3	1016.2	877.1	817.7	762.8	675.9
10°	1644.5	1593.3	1590.5	1551.2	1497.3	1385.7	1232.9	1060.1	954.0	873.5	737.2
12.5°	1828.3	1781.7	1802.7	1798.2	1747.9	1645.4	1468.9	1240.2	1129.6	1004.3	800.3
15°	1995.7	1976.5	1970.1	1964.6	1944.5	1868.6	1710.4	1459.8	1299.7	1148.8	871.6
17.5°	2159.4	2110.1	2133.8	2138.4	2136.6	2068.0	1919.8	1668.3	1479.9	1301.5	946.6
20°	2304.9	2309.4	2277.4	2271.0	2265.5	2262.8	2118.3	1875.0	1701.2	1461.6	1044.5
22.5°	2491.5	2459.4	2487.8	2469.5	2433.8	2411.9	2301.2	2057.9	1893.3	1654.6	1144.2
25°	2711.9	2737.5	2670.7	2663.4	2624.1	2548.2	2448.5	2262.8	2078.0	1833.8	1252.1
27.5°	2983.5	2938.7	2921.3	2881.1	2809.7	2777.7	2660.7	2474.1	2301.2	2022.2	1356.4
30°	3216.8	3204.9	3118.0	3070.4	3008.2	3007.3	2843.6	2760.4	2592.1	2317.7	1500.0
32.5°	3407.0	3354.9	3322.9	3289.9	3239.6	3253.3	3115.2	3071.3	2902.1	2592.1	1669.2
35°	3534.1	3496.6	3477.4	3427.1	3412.5	3473.8	3416.1	3397.9	3258.8	2978.0	1867.7
37.5°	3574.4	3586.3	3582.6	3519.5	3550.6	3716.1	3790.2	3742.7	3669.5	3385.0	2082.6
40°	3610.0	3618.3	3600.0	3674.1	3762.8	3951.2	4219.2	4140.5	4113.1	3797.5	2381.7
42.5°	3630.2	3623.8	3623.8	3751.8	3886.3	4264.9	4633.5	4581.4	4560.3	4236.6	2727.4
45°	3543.3	3481.1	3547.9	3721.6	3992.4	4419.5	4964.6	5036.9	5006.7	4758.8	3131.7
47.5°	3218.6	3257.0	3294.5	3526.8	3863.4	4371.9	5167.7	5413.7	5469.5	5197.8	3396.9
50°	2727.4	2719.2	2796.9	3089.6	3498.5	4167.1	5128.3	5522.5	5624.1	5329.6	3452.7
52.5°	1983.8	2044.2	2128.3	2419.2	2904.0	3636.6	4620.7	5241.7	5377.1	5167.7	3416.1
55°	1155.2	1088.4	1277.7	1523.8	1981.1	2743.0	3906.4	4646.3	4896.9	4873.2	3231.4
57.5°	462.8	448.2	513.1	691.5	1033.5	1700.3	2840.8	3817.7	4219.2	4463.4	2839.9
60°	203.0	198.5	233.2	281.7	422.6	783.8	1554.0	2374.4	2793.3	3118.9	1954.6
62.5°	146.3	144.5	161.9	179.3	223.2	341.2	653.0	956.7	1192.7	1440.5	875.3
65°	118.0	122.6	134.5	143.6	164.6	189.3	230.5	266.2	326.5	338.4	193.0
67.5°	96.0	99.7	110.7	120.7	124.4	102.4	106.1	93.3	93.3	83.2	66.8
70°	70.4	71.3	84.1	96.0	76.8	41.2	72.3	72.3	64.9	62.2	56.7
72.5°	52.1	53.0	63.1	59.5	30.2	25.6	53.0	58.5	53.0	50.3	45.7
75°	38.4	39.3	32.9	13.7	12.8	16.5	31.1	40.2	38.4	37.5	34.8
77.5°	7.3	5.5	4.6	6.4	9.1	13.7	20.1	24.7	25.6	27.4	25.6
80°	0.9	0.9	2.7	5.5	10.1	14.6	21.0	23.8	24.7	25.6	23.8
82.5°	0.0	0.9	2.7	5.5	10.1	13.7	18.3	21.0	22.9	23.8	22.9
85°	0.0	0.9	1.8	4.6	8.2	10.1	9.1	6.4	5.5	6.4	4.6
87.5°	0.0	0.0	0.9	0.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8
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°	576.2	576.2	576.2	576.2	576.2	576.2	576.2	576.2	576.2	576.2	576.2
2.5°	583.5	579.9	567.1	553.4	541.5	546.9	541.5	536.9	538.7	536.9	535.1
5°	615.5	599.1	571.6	559.8	549.7	548.8	546.0	545.1	546.0	546.0	537.8
7.5°	645.7	619.2	589.9	577.1	565.2	566.2	559.8	559.8	558.8	554.3	552.4
10°	691.5	655.8	618.3	595.4	580.8	578.0	571.6	565.2	565.2	565.2	556.1
12.5°	741.8	696.9	645.7	619.2	601.8	588.1	578.0	576.2	566.2	564.3	559.8
15°	785.7	729.0	664.0	627.4	605.5	587.2	571.6	561.6	557.0	554.3	550.6
17.5°	828.7	756.4	674.1	627.4	603.7	582.6	566.2	557.0	546.0	547.9	540.5
20°	886.3	785.7	676.8	615.5	586.3	566.2	544.2	539.6	533.2	527.7	529.6
22.5°	942.1	806.7	668.6	600.9	558.8	535.1	524.1	518.6	515.9	511.3	504.9
25°	992.4	829.6	655.8	574.4	529.6	512.2	502.1	501.2	494.8	494.8	482.9
27.5°	1043.6	837.8	633.8	543.3	504.0	493.9	489.3	487.5	484.8	478.4	470.1
30°	1102.1	840.5	601.8	511.3	481.1	470.1	476.5	481.1	469.2	457.3	461.0
32.5°	1150.6	834.1	563.4	481.1	464.6	459.1	471.9	476.5	462.8	450.0	443.6
35°	1209.1	818.6	525.9	457.3	448.2	459.1	470.1	470.1	442.7	427.1	423.5
37.5°	1297.9	801.2	491.2	437.2	430.8	453.7	468.3	458.2	415.2	396.0	391.5
40°	1393.0	790.2	457.3	417.1	421.6	444.5	452.7	421.6	377.7	365.9	362.2
42.5°	1531.1	768.3	427.1	399.7	413.4	431.7	431.7	375.9	359.4	353.0	352.1
45°	1703.0	752.7	400.6	385.1	401.5	406.1	391.5	352.1	340.2	338.4	339.3
47.5°	1787.2	722.6	373.2	367.7	379.6	380.5	342.1	332.9	322.9	320.1	318.3
50°	1774.4	668.6	337.5	344.8	361.3	352.1	311.9	313.7	304.6	303.7	299.1
52.5°	1684.7	583.5	301.8	319.2	337.5	311.0	287.2	285.4	285.4	273.5	268.9
55°	1493.6	470.1	258.8	280.8	302.7	261.6	255.2	253.4	248.8	237.8	235.1
57.5°	1182.6	344.8	194.8	218.6	257.0	222.3	221.3	213.1	201.2	193.0	193.0
60°	703.4	198.5	122.6	133.5	170.1	180.2	200.3	196.6	176.5	163.7	160.1
62.5°	321.0	102.4	77.7	79.6	91.5	117.1	157.3	182.0	153.7	131.7	129.9
65°	107.9	75.9	64.0	61.3	63.1	70.4	94.2	129.0	122.6	101.5	97.9
67.5°	65.9	67.7	60.4	55.8	55.8	54.9	54.0	58.5	72.3	70.4	71.3
70°	56.7	62.2	55.8	50.3	48.5	45.7	38.4	32.0	27.4	32.0	33.8
72.5°	45.7	49.4	47.6	43.0	38.4	34.8	27.4	21.0	15.5	13.7	13.7
75°	33.8	36.6	38.4	32.9	29.3	24.7	20.1	13.7	8.2	5.5	5.5
77.5°	24.7	27.4	28.4	25.6	22.0	17.4	12.8	9.1	4.6	1.8	1.8
80°	21.0	24.7	27.4	25.6	22.9	16.5	11.9	6.4	3.7	0.9	0.9
82.5°	20.1	24.7	27.4	24.7	22.0	15.5	11.9	7.3	2.7	0.9	0.9
85°	4.6	6.4	8.2	10.1	11.9	11.9	9.1	5.5	2.7	0.9	0.9
87.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8	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)