

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: P527851

Luminaire Tested: **GALN-SA2D-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527851
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-SA2D-827-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 2700K, 1200mA 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: 7564 lumens
Efficiency: N/A
Efficacy: 60.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

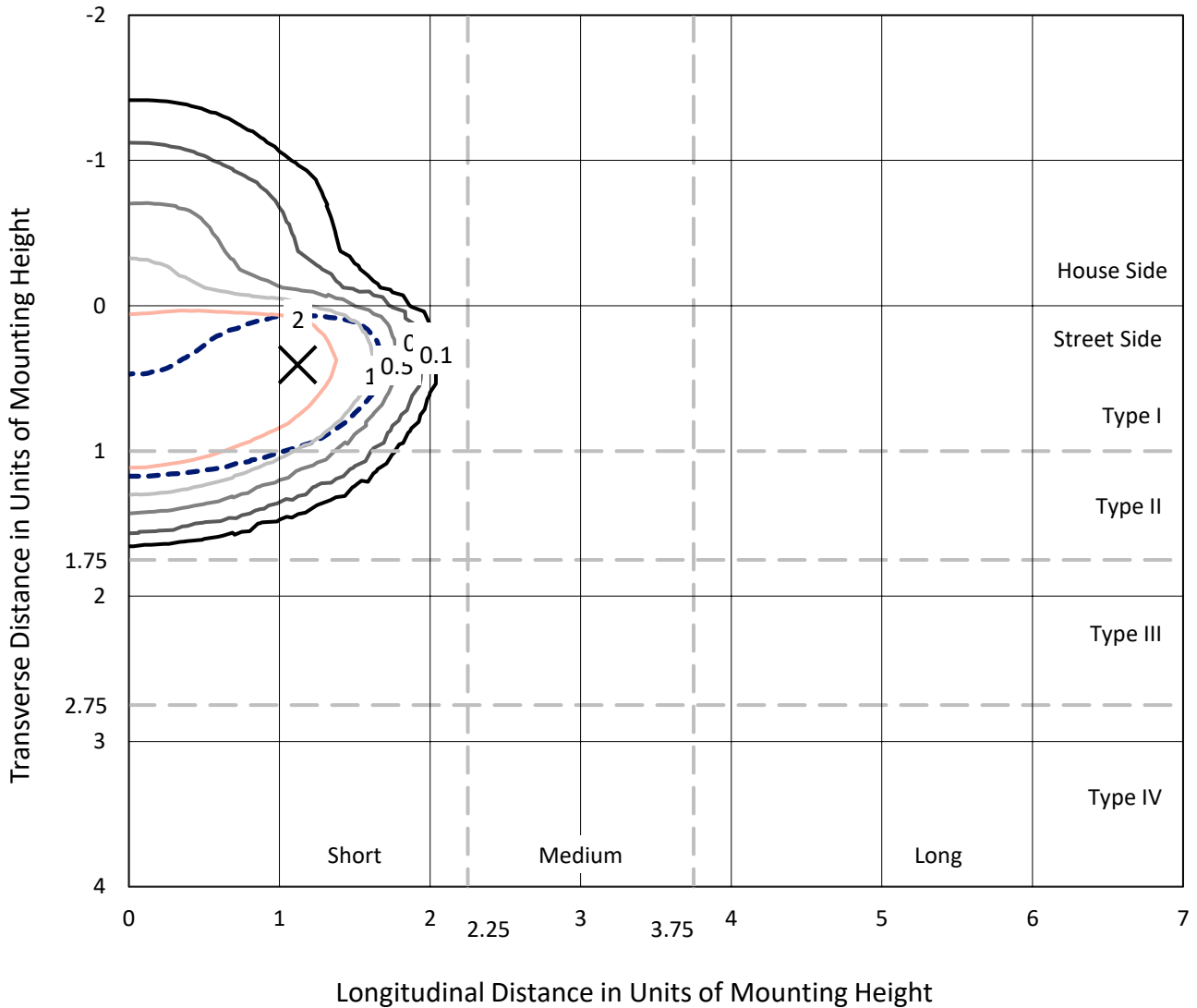
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P527851
 CATALOG NUMBER: GALN-SA2D-827-U-T2R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

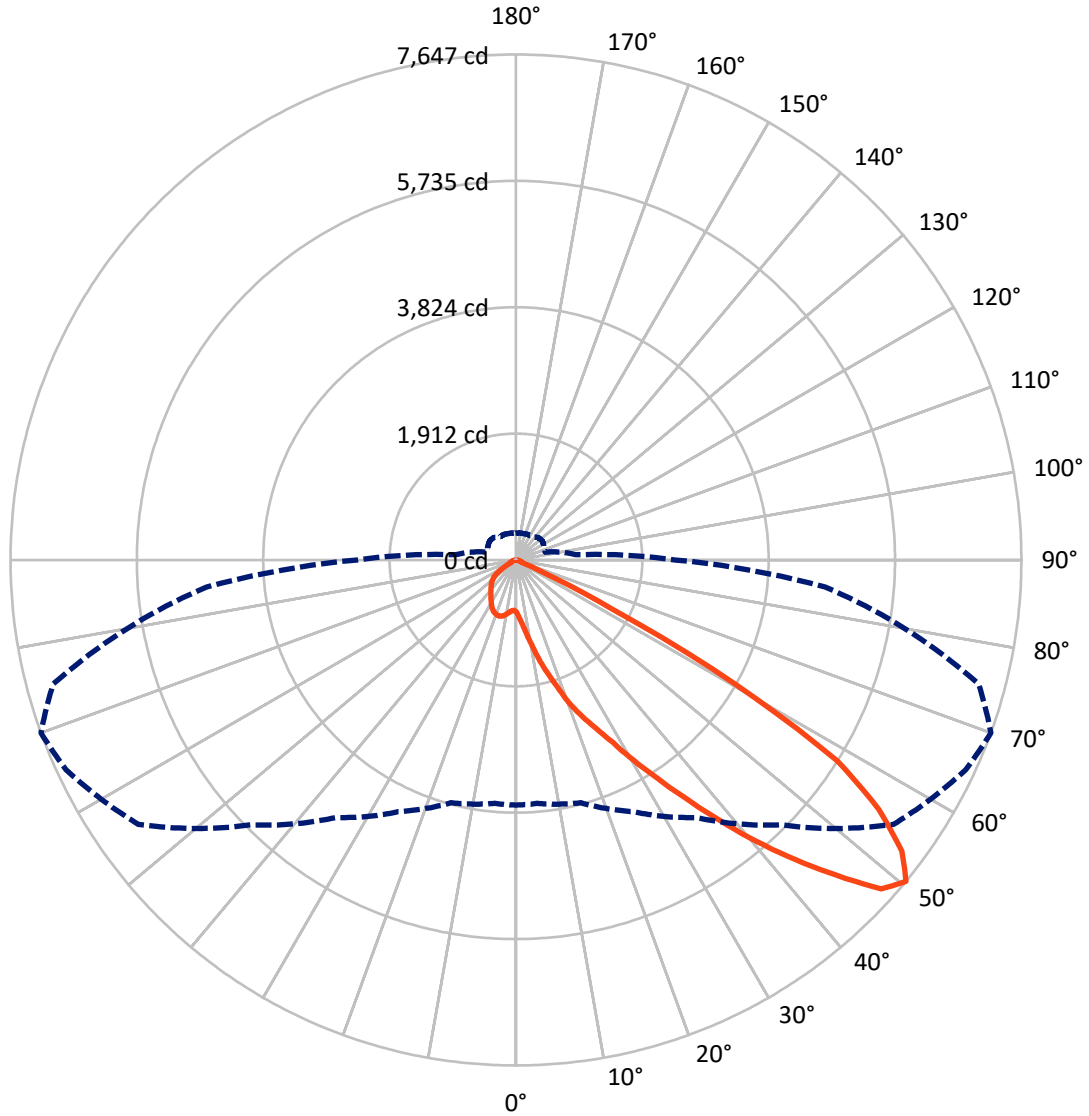
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 fc
 Type I - Short - N/A

REPORT NUMBER: P527851
CATALOG NUMBER: GALN-SA2D-827-U-T2R-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P527851
 CATALOG NUMBER: GALN-SA2D-827-U-T2R-GRSBK

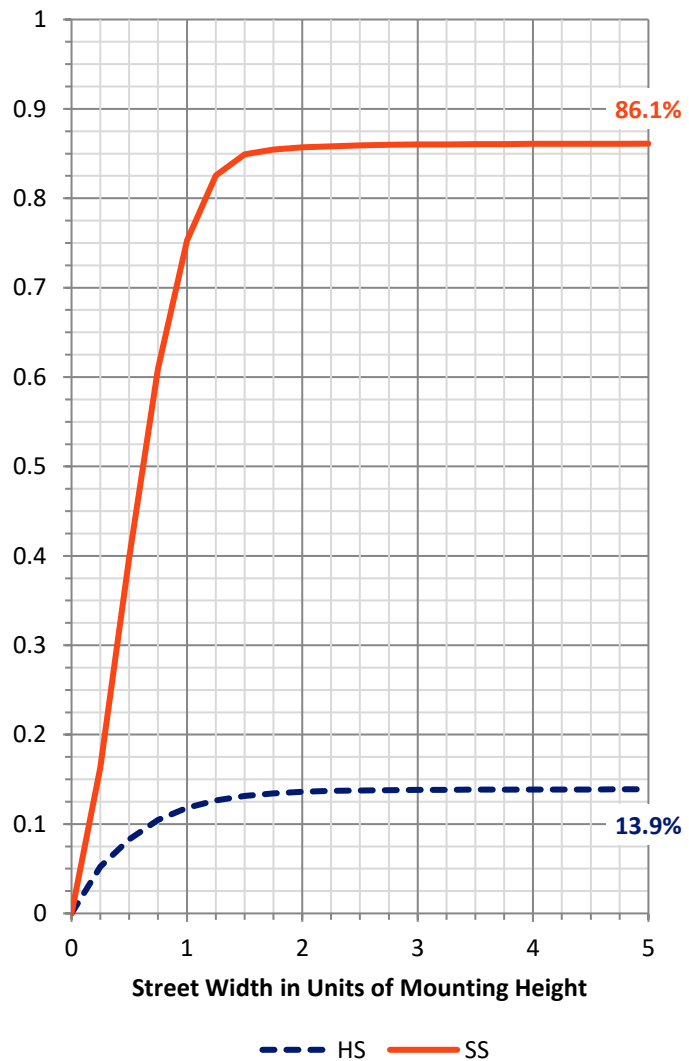
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1056.4	0.0	1056.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	6507.6	0.0	6507.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	7564.0	0.0	7564.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	1.3
10°-20°	440.7	5.8
20°-30°	924.5	12.2
30°-40°	1593.6	21.1
40°-50°	2329.0	30.8
50°-60°	1813.9	24.0
60°-70°	307.3	4.1
70°-80°	42.2	0.6
80°-90°	10.9	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°	7564.0	100.0
0°-180°	7564.0	100.0



REPORT NUMBER: P527851

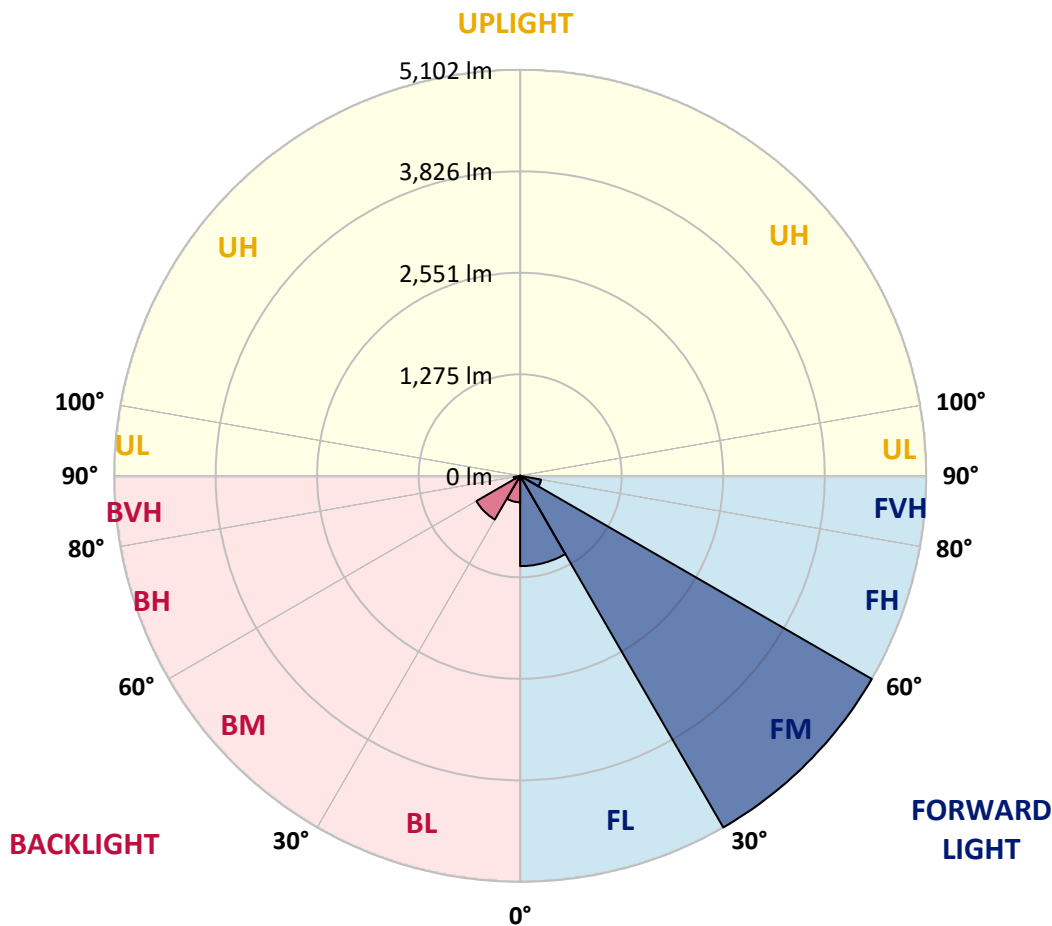
CATALOG NUMBER: GALN-SA2D-827-U-T2R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1134.7	15.0			
FM (30°-60°)	5101.8	67.4			
FH (60°-80°)	266.1	3.5			G0/660
FVH (80°-90°)	5.1	0.1			G0/10
BL (0°-30°)	332.4	4.4	B1/500		
BM (30°-60°)	634.6	8.4	B1/1000		
BH (60°-80°)	83.4	1.1	B0/110		G0/110
BVH (80°-90°)	5.9	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





REPORT NUMBER: P527851

CATALOG NUMBER: GALN-SA2D-827-U-T2R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5
2.5°	1026.0	1018.5	1002.4	972.5	960.1	930.2	912.8	879.2	858.1	834.5	808.4
5°	1445.1	1406.5	1382.9	1349.3	1251.1	1190.1	1089.4	1003.6	963.8	920.3	860.6
7.5°	1877.9	1853.0	1820.7	1748.5	1681.4	1554.5	1381.7	1192.6	1111.8	1037.2	919.0
10°	2236.0	2166.4	2162.7	2109.2	2035.8	1884.1	1676.4	1441.4	1297.1	1187.7	1002.4
12.5°	2486.0	2422.6	2451.2	2445.0	2376.6	2237.3	1997.3	1686.4	1535.9	1365.5	1088.2
15°	2713.6	2687.5	2678.8	2671.3	2643.9	2540.7	2325.6	1984.8	1767.2	1562.0	1185.2
17.5°	2936.2	2869.0	2901.4	2907.6	2905.1	2811.8	2610.4	2268.4	2012.2	1769.7	1287.1
20°	3133.9	3140.1	3096.6	3087.9	3080.5	3076.7	2880.2	2549.4	2313.1	1987.3	1420.2
22.5°	3387.6	3344.1	3382.7	3357.8	3309.3	3279.4	3129.0	2798.1	2574.3	2249.7	1555.8
25°	3687.3	3722.2	3631.4	3621.4	3567.9	3464.7	3329.2	3076.7	2825.5	2493.5	1702.5
27.5°	4056.7	3995.8	3972.1	3917.4	3820.4	3776.9	3617.7	3364.0	3129.0	2749.6	1844.3
30°	4373.8	4357.6	4239.5	4174.8	4090.3	4089.0	3866.4	3753.2	3524.4	3151.3	2039.5
32.5°	4632.5	4561.6	4518.1	4473.3	4404.9	4423.6	4235.8	4176.1	3946.0	3524.4	2269.6
35°	4805.4	4754.4	4728.2	4659.8	4640.0	4723.3	4644.9	4620.1	4431.0	4049.2	2539.5
37.5°	4860.1	4876.2	4871.3	4785.5	4827.7	5052.8	5153.6	5088.9	4989.4	4602.6	2831.7
40°	4908.6	4919.8	4894.9	4995.6	5116.3	5372.4	5736.8	5629.9	5592.6	5163.5	3238.4
42.5°	4935.9	4927.2	4927.2	5101.3	5284.1	5799.0	6300.2	6229.3	6200.7	5760.5	3708.5
45°	4817.8	4733.2	4824.0	5060.3	5428.4	6009.2	6750.4	6848.6	6807.6	6470.6	4258.2
47.5°	4376.3	4428.5	4479.5	4795.4	5253.1	5944.5	7026.5	7361.0	7436.9	7067.5	4618.8
50°	3708.5	3697.3	3803.0	4201.0	4756.9	5665.9	6973.0	7509.0	7647.0	7246.6	4694.7
52.5°	2697.4	2779.5	2893.9	3289.4	3948.5	4944.6	6282.8	7127.2	7311.2	7026.5	4644.9
55°	1570.7	1479.9	1737.3	2071.9	2693.7	3729.6	5311.5	6317.6	6658.3	6626.0	4393.7
57.5°	629.3	609.4	697.7	940.2	1405.3	2311.9	3862.7	5190.9	5736.8	6068.9	3861.4
60°	276.1	269.9	317.1	383.0	574.6	1065.8	2112.9	3228.4	3798.0	4240.7	2657.6
62.5°	199.0	196.5	220.1	243.7	303.4	463.9	887.9	1300.8	1621.7	1958.7	1190.1
65°	160.4	166.6	182.8	195.2	223.9	257.4	313.4	361.9	444.0	460.1	262.4
67.5°	130.6	135.6	150.5	164.2	169.1	139.3	144.3	126.8	126.8	113.2	90.8
70°	95.8	97.0	114.4	130.6	104.5	56.0	98.2	98.2	88.3	84.6	77.1
72.5°	70.9	72.1	85.8	80.8	41.0	34.8	72.1	79.6	72.1	68.4	62.2
75°	52.2	53.5	44.8	18.7	17.4	22.4	42.3	54.7	52.2	51.0	47.3
77.5°	9.9	7.5	6.2	8.7	12.4	18.7	27.4	33.6	34.8	37.3	34.8
80°	1.2	1.2	3.7	7.5	13.7	19.9	28.6	32.3	33.6	34.8	32.3
82.5°	0.0	1.2	3.7	7.5	13.7	18.7	24.9	28.6	31.1	32.3	31.1
85°	0.0	1.2	2.5	6.2	11.2	13.7	12.4	8.7	7.5	8.7	6.2
87.5°	0.0	0.0	1.2	1.2	2.5	2.5	2.5	2.5	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P527851

CATALOG NUMBER: GALN-SA2D-827-U-T2R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5	783.5
2.5°	793.4	788.5	771.0	752.4	736.2	743.7	736.2	730.0	732.5	730.0	727.5
5°	837.0	814.6	777.3	761.1	747.4	746.2	742.4	741.2	742.4	742.4	731.2
7.5°	878.0	841.9	802.1	784.7	768.6	769.8	761.1	761.1	759.9	753.6	751.1
10°	940.2	891.7	840.7	809.6	789.7	786.0	777.3	768.6	768.6	768.6	756.1
12.5°	1008.6	947.6	878.0	841.9	818.3	799.6	786.0	783.5	769.8	767.3	761.1
15°	1068.3	991.2	902.9	853.1	823.3	798.4	777.3	763.6	757.4	753.6	748.7
17.5°	1126.7	1028.5	916.5	853.1	820.8	792.2	769.8	757.4	742.4	744.9	735.0
20°	1205.1	1068.3	920.3	837.0	797.2	769.8	740.0	733.7	725.0	717.6	720.1
22.5°	1280.9	1096.9	909.1	817.1	759.9	727.5	712.6	705.1	701.4	695.2	686.5
25°	1349.3	1128.0	891.7	781.0	720.1	696.4	682.7	681.5	672.8	672.8	656.6
27.5°	1419.0	1139.2	861.8	738.7	685.2	671.6	665.3	662.9	659.1	650.4	639.2
30°	1498.6	1142.9	818.3	695.2	654.1	639.2	647.9	654.1	638.0	621.8	626.8
32.5°	1564.5	1134.2	766.1	654.1	631.8	624.3	641.7	647.9	629.3	611.9	603.2
35°	1644.1	1113.0	715.1	621.8	609.4	624.3	639.2	639.2	601.9	580.8	575.8
37.5°	1764.7	1089.4	667.8	594.5	585.7	616.8	636.7	623.1	564.6	538.5	532.3
40°	1894.0	1074.5	621.8	567.1	573.3	604.4	615.6	573.3	513.6	497.4	492.5
42.5°	2081.8	1044.6	580.8	543.5	562.1	587.0	587.0	511.1	488.7	480.0	478.8
45°	2315.6	1023.5	544.7	523.6	545.9	552.2	532.3	478.8	462.6	460.1	461.4
47.5°	2430.0	982.5	507.4	499.9	516.1	517.3	465.1	452.7	439.0	435.3	432.8
50°	2412.6	909.1	458.9	468.8	491.2	478.8	424.1	426.6	414.1	412.9	406.7
52.5°	2290.8	793.4	410.4	434.0	458.9	422.8	390.5	388.0	388.0	371.8	365.6
55°	2030.8	639.2	351.9	381.8	411.6	355.7	347.0	344.5	338.3	323.3	319.6
57.5°	1608.0	468.8	264.9	297.2	349.5	302.2	301.0	289.8	273.6	262.4	262.4
60°	956.3	269.9	166.6	181.6	231.3	245.0	272.4	267.4	240.0	222.6	217.6
62.5°	436.5	139.3	105.7	108.2	124.4	159.2	213.9	247.5	208.9	179.1	176.6
65°	146.7	103.2	87.1	83.3	85.8	95.8	128.1	175.4	166.6	138.0	133.1
67.5°	89.5	92.0	82.1	75.9	75.9	74.6	73.4	79.6	98.2	95.8	97.0
70°	77.1	84.6	75.9	68.4	65.9	62.2	52.2	43.5	37.3	43.5	46.0
72.5°	62.2	67.2	64.7	58.5	52.2	47.3	37.3	28.6	21.1	18.7	18.7
75°	46.0	49.7	52.2	44.8	39.8	33.6	27.4	18.7	11.2	7.5	7.5
77.5°	33.6	37.3	38.6	34.8	29.8	23.6	17.4	12.4	6.2	2.5	2.5
80°	28.6	33.6	37.3	34.8	31.1	22.4	16.2	8.7	5.0	1.2	1.2
82.5°	27.4	33.6	37.3	33.6	29.8	21.1	16.2	9.9	3.7	1.2	1.2
85°	6.2	8.7	11.2	13.7	16.2	16.2	12.4	7.5	3.7	1.2	1.2
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.2	1.2	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)