

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: P527305

Luminaire Tested: **GALN-SA2B-740-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527305
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-740-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 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: 7568 lumens
Efficiency: N/A
Efficacy: 92.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

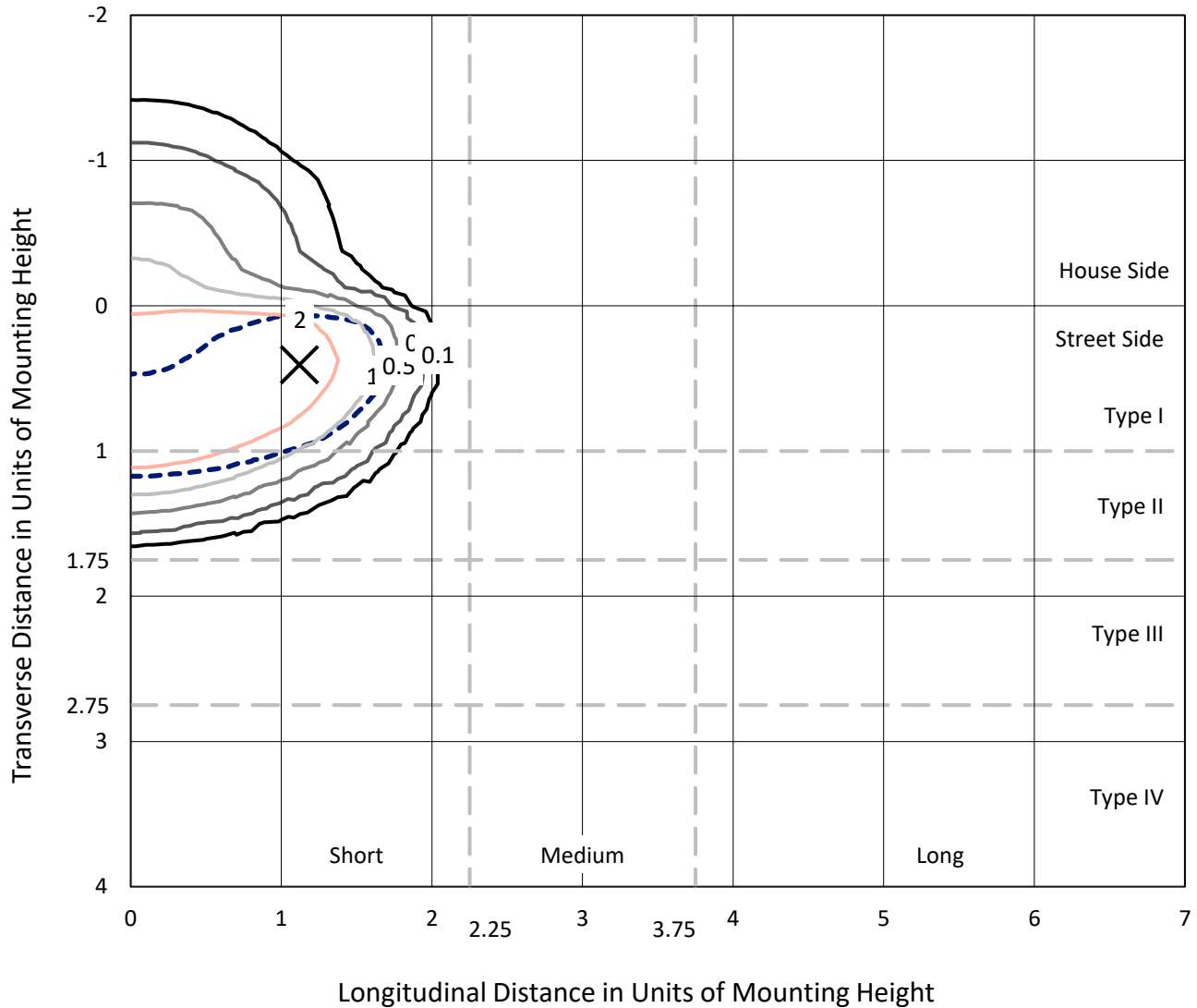
Input Watts (W): 82
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

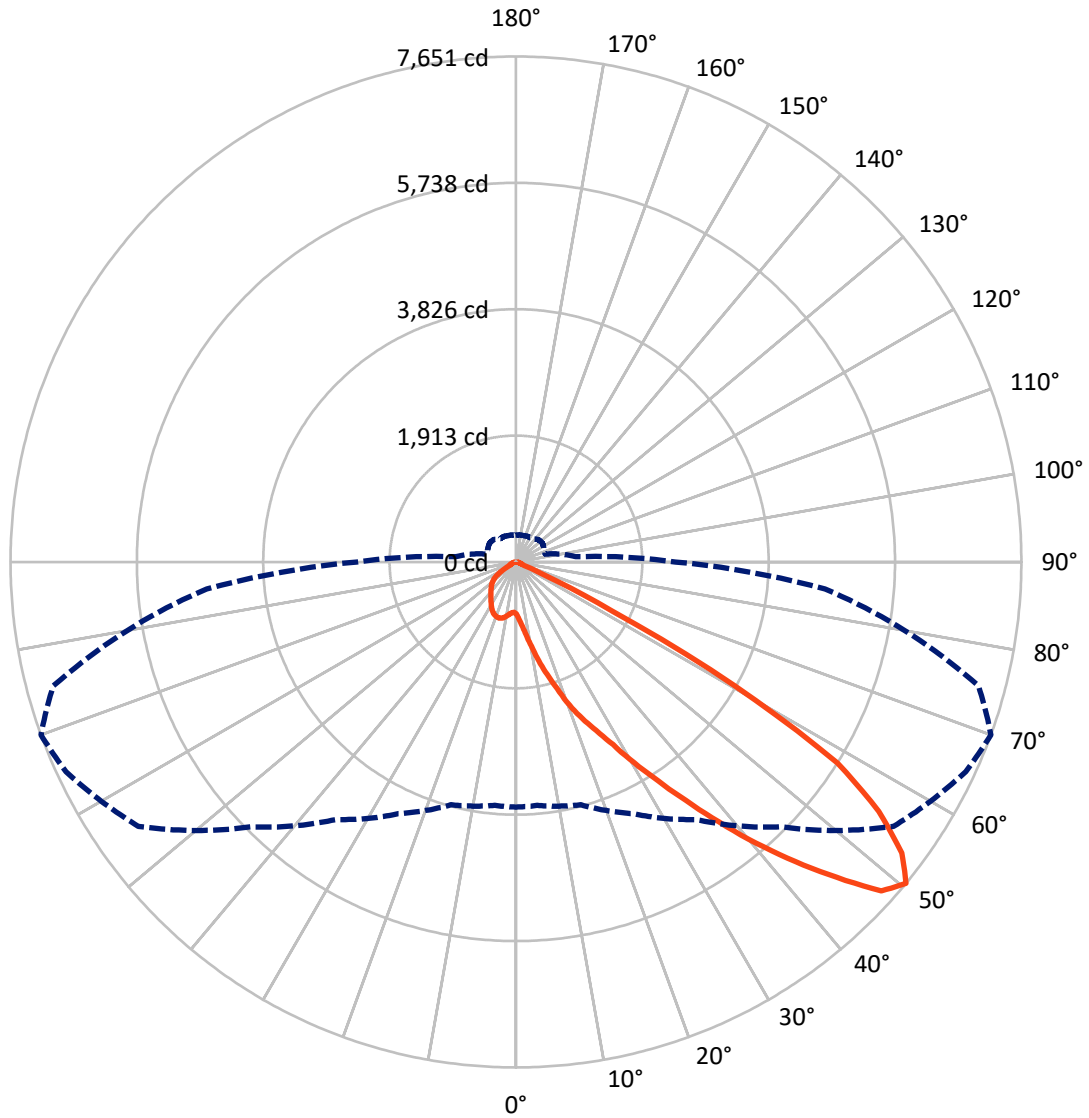
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.5 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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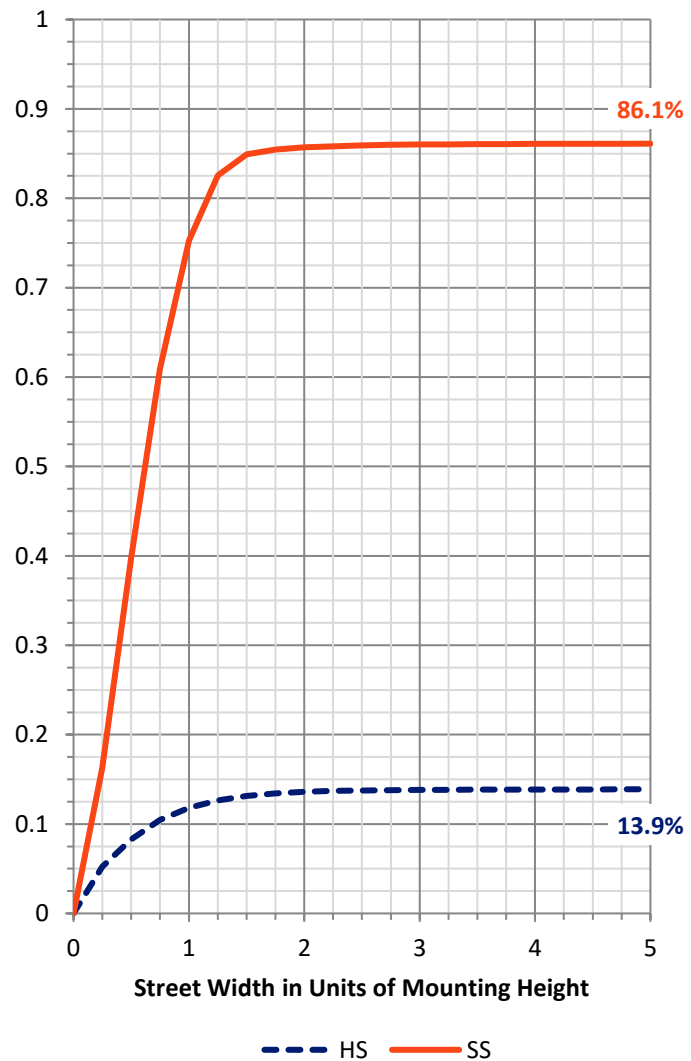
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1056.9	0.0	1056.9
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	6511.1	0.0	6511.1
	% Fixture	86.0	0.0	86.0
Total	Lumens	7568.0	0.0	7568.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.9	1.3
10°-20°	440.9	5.8
20°-30°	925.0	12.2
30°-40°	1594.4	21.1
40°-50°	2330.2	30.8
50°-60°	1814.8	24.0
60°-70°	307.5	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°	7568.0	100.0
0°-180°	7568.0	100.0



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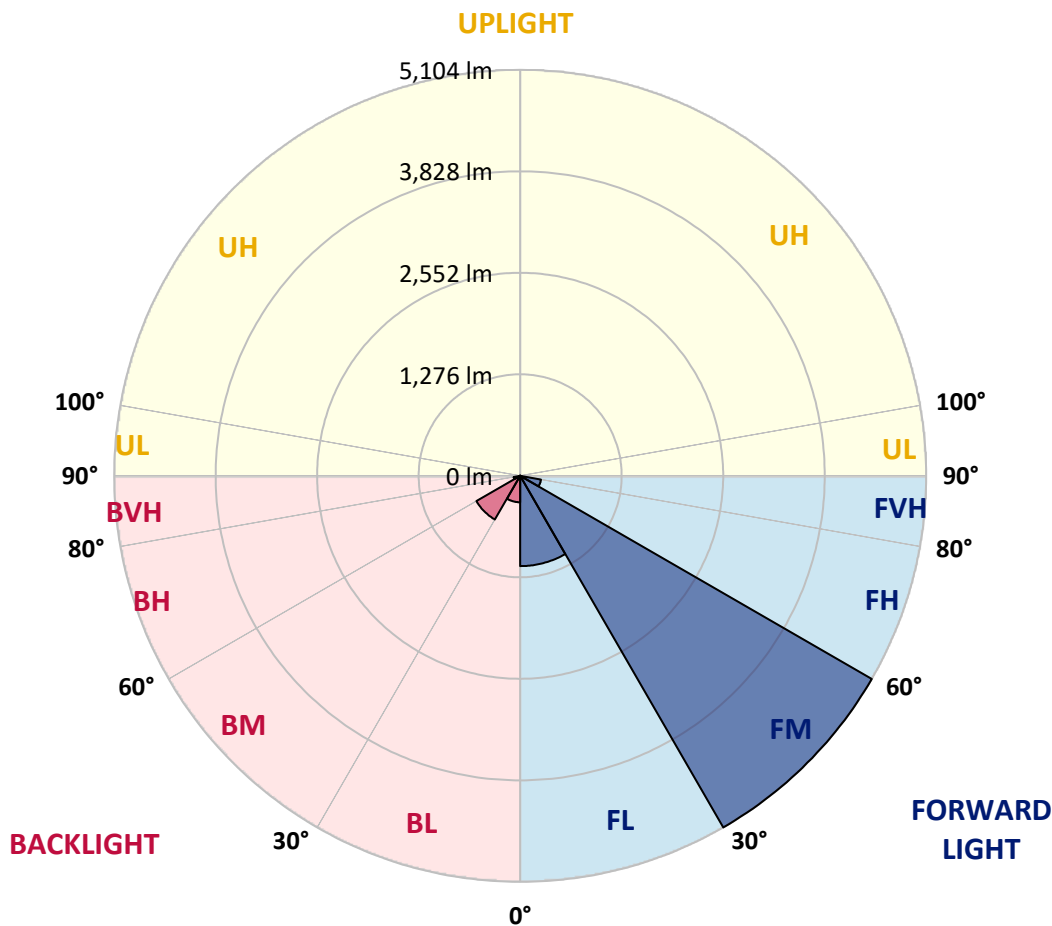
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1135.3	15.0			
FM (30°-60°)	5104.5	67.4			
FH (60°-80°)	266.2	3.5			G0/660
FVH (80°-90°)	5.1	0.1			G0/10
BL (0°-30°)	332.6	4.4	B1/500		
BM (30°-60°)	635.0	8.4	B1/1000		
BH (60°-80°)	83.5	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	783.9	783.9	783.9	783.9	783.9	783.9	783.9	783.9	783.9	783.9	783.9
2.5°	1026.5	1019.1	1002.9	973.0	960.6	930.7	913.3	879.7	858.6	834.9	808.8
5°	1445.9	1407.3	1383.6	1350.0	1251.7	1190.8	1090.0	1004.1	964.3	920.8	861.0
7.5°	1878.9	1854.0	1821.6	1749.5	1682.3	1555.3	1382.4	1193.3	1112.4	1037.7	919.5
10°	2237.2	2167.5	2163.8	2110.3	2036.9	1885.1	1677.3	1442.1	1297.8	1188.3	1002.9
12.5°	2487.3	2423.9	2452.5	2446.3	2377.8	2238.5	1998.3	1687.2	1536.7	1366.2	1088.7
15°	2715.0	2688.9	2680.2	2672.7	2645.3	2542.1	2326.8	1985.9	1768.1	1562.8	1185.8
17.5°	2937.7	2870.6	2902.9	2909.1	2906.6	2813.3	2611.7	2269.6	2013.2	1770.6	1287.8
20°	3135.6	3141.8	3098.3	3089.5	3082.1	3078.3	2881.8	2550.8	2314.4	1988.4	1421.0
22.5°	3389.4	3345.9	3384.4	3359.6	3311.0	3281.2	3130.6	2799.6	2575.7	2250.9	1556.6
25°	3689.3	3724.1	3633.3	3623.3	3569.8	3466.6	3330.9	3078.3	2827.0	2494.8	1703.4
27.5°	4058.8	3997.9	3974.2	3919.5	3822.4	3778.9	3619.6	3365.8	3130.6	2751.1	1845.3
30°	4376.1	4360.0	4241.7	4177.0	4092.4	4091.2	3868.5	3755.2	3526.3	3153.0	2040.6
32.5°	4634.9	4564.0	4520.5	4475.7	4407.2	4425.9	4238.0	4178.3	3948.1	3526.3	2270.8
35°	4807.9	4756.9	4730.7	4662.3	4642.4	4725.8	4647.4	4622.5	4433.4	4051.4	2540.8
37.5°	4862.6	4878.8	4873.8	4788.0	4830.3	5055.5	5156.3	5091.6	4992.0	4605.1	2833.2
40°	4911.2	4922.4	4897.5	4998.3	5119.0	5375.3	5739.9	5632.9	5595.5	5166.2	3240.1
42.5°	4938.5	4929.8	4929.8	5104.0	5286.9	5802.1	6303.5	6232.6	6204.0	5763.5	3710.4
45°	4820.3	4735.7	4826.6	5063.0	5431.3	6012.4	6753.9	6852.2	6811.2	6474.0	4260.4
47.5°	4378.6	4430.9	4481.9	4797.9	5255.8	5947.7	7030.2	7364.9	7440.8	7071.2	4621.3
50°	3710.4	3699.2	3805.0	4203.2	4759.4	5668.9	6976.7	7513.0	7651.1	7250.4	4697.2
52.5°	2698.8	2781.0	2895.4	3291.1	3950.6	4947.3	6286.1	7131.0	7315.1	7030.2	4647.4
55°	1571.5	1480.7	1738.3	2073.0	2695.1	3731.6	5314.3	6320.9	6661.9	6629.5	4396.0
57.5°	629.6	609.7	698.0	940.7	1406.0	2313.1	3864.7	5193.6	5739.9	6072.1	3863.5
60°	276.2	270.0	317.3	383.2	574.9	1066.3	2114.0	3230.1	3800.0	4243.0	2659.0
62.5°	199.1	196.6	220.2	243.9	303.6	464.1	888.4	1301.5	1622.5	1959.7	1190.8
65°	160.5	166.7	182.9	195.4	224.0	257.6	313.6	362.1	444.2	460.4	262.5
67.5°	130.6	135.6	150.6	164.2	169.2	139.4	144.3	126.9	126.9	113.2	90.8
70°	95.8	97.1	114.5	130.6	104.5	56.0	98.3	98.3	88.3	84.6	77.1
72.5°	70.9	72.2	85.9	80.9	41.1	34.8	72.2	79.6	72.2	68.4	62.2
75°	52.3	53.5	44.8	18.7	17.4	22.4	42.3	54.7	52.3	51.0	47.3
77.5°	10.0	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	32.4	33.6	34.8	32.4
82.5°	0.0	1.2	3.7	7.5	13.7	18.7	24.9	28.6	31.1	32.4	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	783.9	783.9	783.9	783.9	783.9	783.9	783.9	783.9	783.9	783.9	783.9
2.5°	793.9	788.9	771.5	752.8	736.6	744.1	736.6	730.4	732.9	730.4	727.9
5°	837.4	815.0	777.7	761.5	747.8	746.6	742.8	741.6	742.8	742.8	731.6
7.5°	878.5	842.4	802.6	785.1	769.0	770.2	761.5	761.5	760.3	754.0	751.5
10°	940.7	892.1	841.1	810.0	790.1	786.4	777.7	769.0	769.0	769.0	756.5
12.5°	1009.1	948.1	878.5	842.4	818.7	800.1	786.4	783.9	770.2	767.7	761.5
15°	1068.8	991.7	903.3	853.6	823.7	798.8	777.7	764.0	757.8	754.0	749.1
17.5°	1127.3	1029.0	917.0	853.6	821.2	792.6	770.2	757.8	742.8	745.3	735.4
20°	1205.7	1068.8	920.8	837.4	797.6	770.2	740.3	734.1	725.4	717.9	720.4
22.5°	1281.6	1097.5	909.6	817.5	760.3	727.9	713.0	705.5	701.8	695.6	686.8
25°	1350.0	1128.6	892.1	781.4	720.4	696.8	683.1	681.9	673.2	673.2	657.0
27.5°	1419.7	1139.8	862.3	739.1	685.6	671.9	665.7	663.2	659.5	650.8	639.6
30°	1499.4	1143.5	818.7	695.6	654.5	639.6	648.3	654.5	638.3	622.1	627.1
32.5°	1565.3	1134.8	766.5	654.5	632.1	624.6	642.0	648.3	629.6	612.2	603.5
35°	1644.9	1113.6	715.5	622.1	609.7	624.6	639.6	639.6	602.2	581.1	576.1
37.5°	1765.6	1090.0	668.2	594.8	586.1	617.2	637.1	623.4	564.9	538.8	532.6
40°	1895.0	1075.1	622.1	567.4	573.6	604.7	615.9	573.6	513.9	497.7	492.7
42.5°	2082.9	1045.2	581.1	543.7	562.4	587.3	587.3	511.4	489.0	480.3	479.0
45°	2316.8	1024.0	545.0	523.8	546.2	552.5	532.6	479.0	462.9	460.4	461.6
47.5°	2431.3	983.0	507.7	500.2	516.4	517.6	465.4	452.9	439.2	435.5	433.0
50°	2413.9	909.6	459.1	469.1	491.5	479.0	424.3	426.8	414.3	413.1	406.9
52.5°	2292.0	793.9	410.6	434.3	459.1	423.1	390.7	388.2	388.2	372.0	365.8
55°	2031.9	639.6	352.1	382.0	411.9	355.9	347.2	344.7	338.4	323.5	319.8
57.5°	1608.9	469.1	265.0	297.4	349.6	302.4	301.1	289.9	273.7	262.5	262.5
60°	956.9	270.0	166.7	181.7	231.4	245.1	272.5	267.5	240.1	222.7	217.7
62.5°	436.7	139.4	105.8	108.3	124.4	159.3	214.0	247.6	209.0	179.2	176.7
65°	146.8	103.3	87.1	83.4	85.9	95.8	128.2	175.4	166.7	138.1	133.1
67.5°	89.6	92.1	82.1	75.9	75.9	74.7	73.4	79.6	98.3	95.8	97.1
70°	77.1	84.6	75.9	68.4	65.9	62.2	52.3	43.5	37.3	43.5	46.0
72.5°	62.2	67.2	64.7	58.5	52.3	47.3	37.3	28.6	21.2	18.7	18.7
75°	46.0	49.8	52.3	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	29.9	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	29.9	21.2	16.2	10.0	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)