

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: P527097

Luminaire Tested: **GALN-SA2A-750-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P527097
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-SA2A-750-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5000K, 615mA 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: 6082 lumens
Efficiency: N/A
Efficacy: 96.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

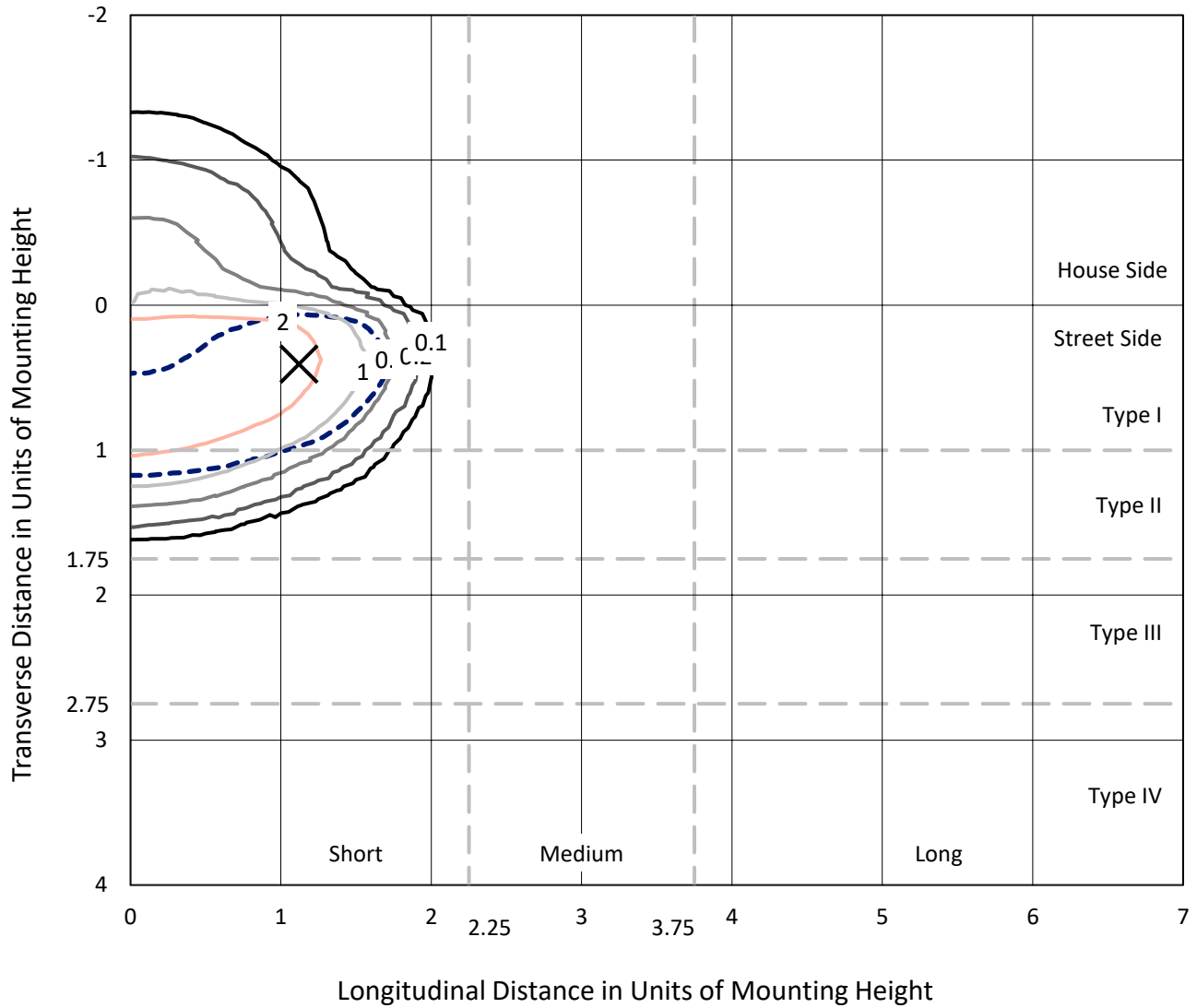
Input Watts (W): 63
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

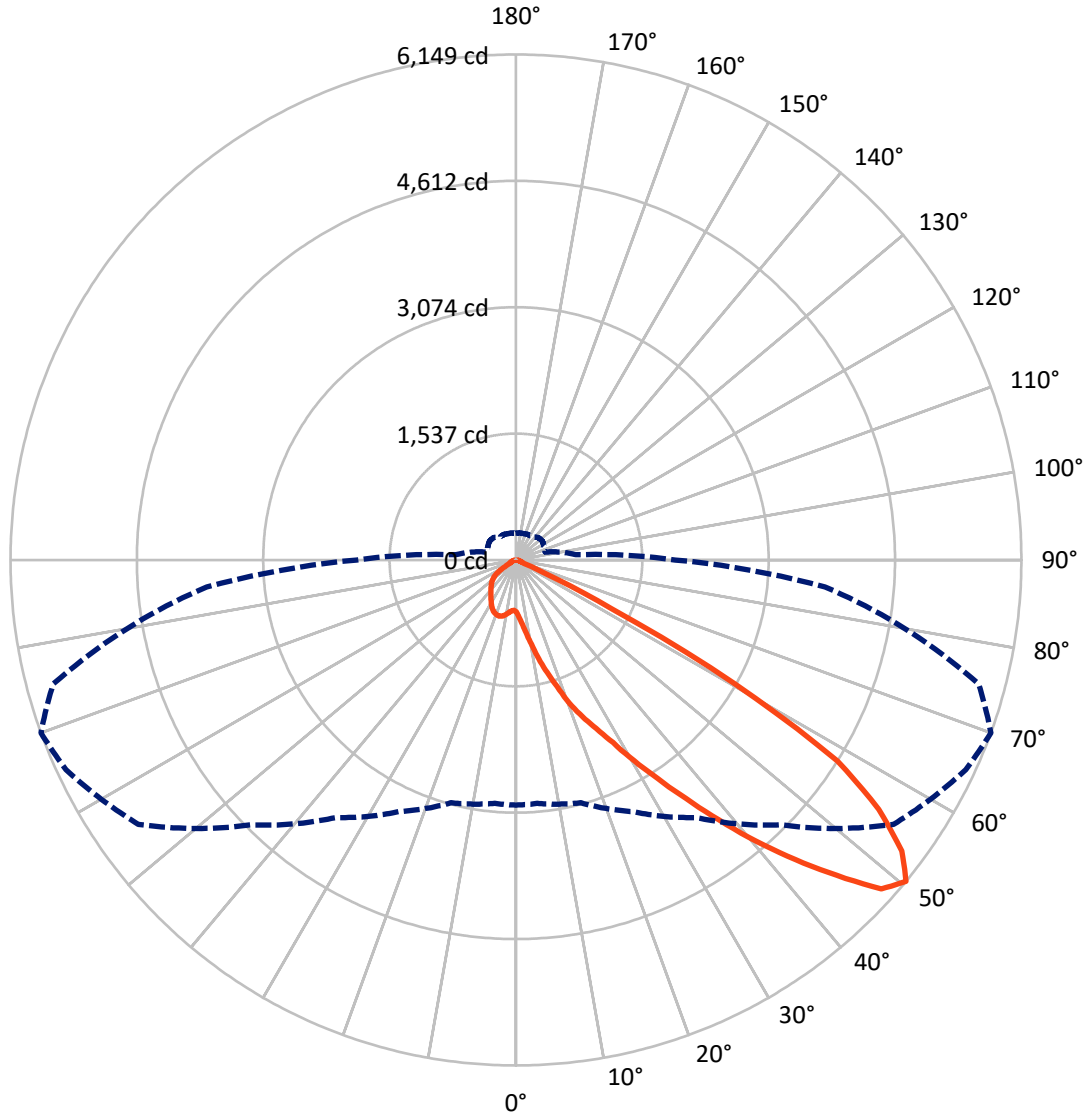
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 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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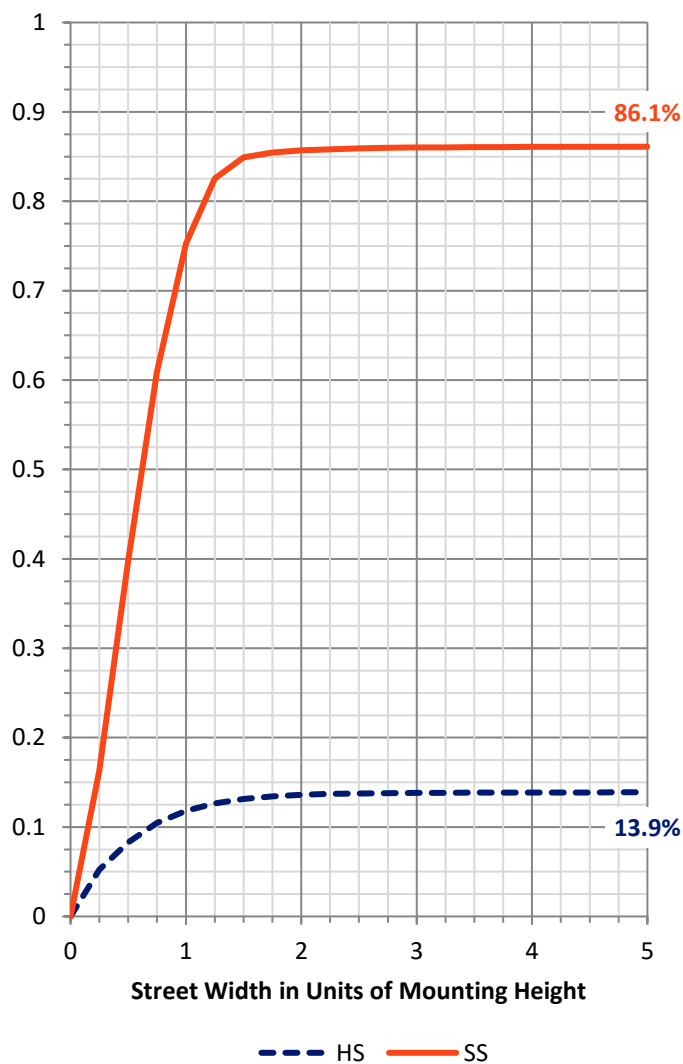
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	849.4	0.0	849.4
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	5232.6	0.0	5232.6
	% Fixture	86.0	0.0	86.0
Total	Lumens	6082.0	0.0	6082.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.9	1.3
10°-20°	354.4	5.8
20°-30°	743.4	12.2
30°-40°	1281.3	21.1
40°-50°	1872.7	30.8
50°-60°	1458.5	24.0
60°-70°	247.1	4.1
70°-80°	33.9	0.6
80°-90°	8.8	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°	6082.0	100.0
0°-180°	6082.0	100.0

Coefficient of Utilization



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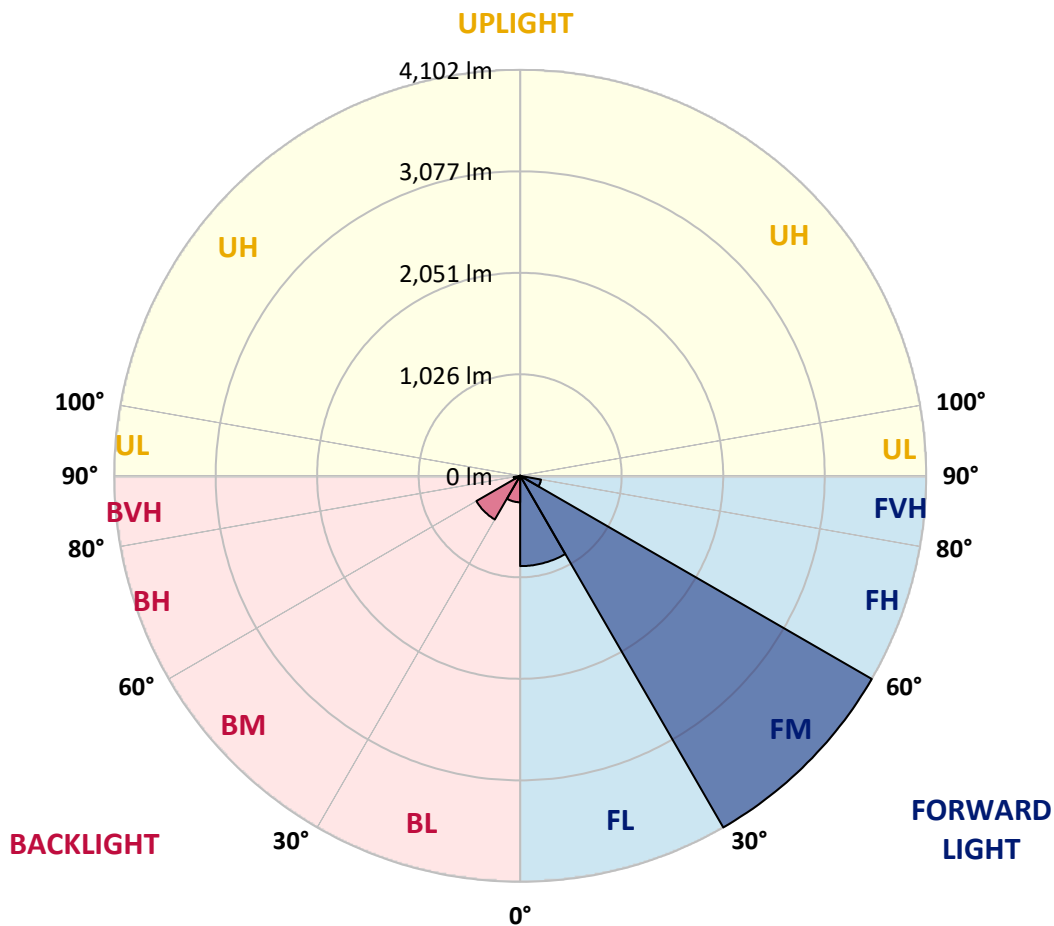
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	912.4	15.0			
FM (30°-60°)	4102.2	67.4			
FH (60°-80°)	214.0	3.5			G0/660
FVH (80°-90°)	4.1	0.1			G0/10
BL (0°-30°)	267.3	4.4	B1/500		
BM (30°-60°)	510.3	8.4	B1/1000		
BH (60°-80°)	67.1	1.1	B0/110		G0/110
BVH (80°-90°)	4.7	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°	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
2.5°	825.0	819.0	806.0	782.0	772.0	748.0	734.0	707.0	690.0	671.0	650.0
5°	1162.0	1131.0	1112.0	1085.0	1006.0	957.0	876.0	807.0	775.0	740.0	692.0
7.5°	1509.9	1489.9	1463.9	1405.9	1351.9	1250.0	1111.0	959.0	894.0	834.0	739.0
10°	1797.9	1741.9	1738.9	1695.9	1636.9	1514.9	1347.9	1159.0	1043.0	955.0	806.0
12.5°	1998.9	1947.9	1970.9	1965.9	1910.9	1798.9	1605.9	1355.9	1235.0	1098.0	875.0
15°	2181.9	2160.9	2153.9	2147.9	2125.9	2042.9	1869.9	1595.9	1420.9	1256.0	953.0
17.5°	2360.9	2306.9	2332.9	2337.9	2335.9	2260.9	2098.9	1823.9	1617.9	1422.9	1035.0
20°	2519.9	2524.9	2489.9	2482.9	2476.9	2473.9	2315.9	2049.9	1859.9	1597.9	1142.0
22.5°	2723.9	2688.9	2719.9	2699.9	2660.9	2636.9	2515.9	2249.9	2069.9	1808.9	1251.0
25°	2964.9	2992.9	2919.9	2911.9	2868.9	2785.9	2676.9	2473.9	2271.9	2004.9	1368.9
27.5°	3261.9	3212.9	3193.9	3149.9	3071.9	3036.9	2908.9	2704.9	2515.9	2210.9	1482.9
30°	3516.9	3503.9	3408.9	3356.9	3288.9	3287.9	3108.9	3017.9	2833.9	2533.9	1639.9
32.5°	3724.9	3667.9	3632.9	3596.9	3541.9	3556.9	3405.9	3357.9	3172.9	2833.9	1824.9
35°	3863.8	3822.9	3801.9	3746.9	3730.9	3797.9	3734.9	3714.9	3562.9	3255.9	2041.9
37.5°	3907.8	3920.8	3916.8	3847.8	3881.8	4062.8	4143.8	4091.8	4011.8	3700.9	2276.9
40°	3946.8	3955.8	3935.8	4016.8	4113.8	4319.8	4612.8	4526.8	4496.8	4151.8	2603.9
42.5°	3968.8	3961.8	3961.8	4101.8	4248.8	4662.8	5065.8	5008.8	4985.8	4631.8	2981.9
45°	3873.8	3805.9	3878.8	4068.8	4364.8	4831.8	5427.8	5506.8	5473.8	5202.8	3423.9
47.5°	3518.9	3560.9	3601.9	3855.8	4223.8	4779.8	5649.8	5918.8	5979.8	5682.8	3713.9
50°	2981.9	2972.9	3057.9	3377.9	3824.9	4555.8	5606.8	6037.8	6148.8	5826.8	3774.9
52.5°	2168.9	2234.9	2326.9	2644.9	3174.9	3975.8	5051.8	5730.8	5878.8	5649.8	3734.9
55°	1263.0	1190.0	1396.9	1665.9	2165.9	2998.9	4270.8	5079.8	5353.8	5327.8	3532.9
57.5°	506.0	490.0	561.0	756.0	1130.0	1858.9	3105.9	4173.8	4612.8	4879.8	3104.9
60°	222.0	217.0	255.0	308.0	462.0	857.0	1698.9	2595.9	3053.9	3409.9	2136.9
62.5°	160.0	158.0	177.0	196.0	244.0	373.0	714.0	1046.0	1303.9	1574.9	957.0
65°	129.0	134.0	147.0	157.0	180.0	207.0	252.0	291.0	357.0	370.0	211.0
67.5°	105.0	109.0	121.0	132.0	136.0	112.0	116.0	102.0	102.0	91.0	73.0
70°	77.0	78.0	92.0	105.0	84.0	45.0	79.0	79.0	71.0	68.0	62.0
72.5°	57.0	58.0	69.0	65.0	33.0	28.0	58.0	64.0	58.0	55.0	50.0
75°	42.0	43.0	36.0	15.0	14.0	18.0	34.0	44.0	42.0	41.0	38.0
77.5°	8.0	6.0	5.0	7.0	10.0	15.0	22.0	27.0	28.0	30.0	28.0
80°	1.0	1.0	3.0	6.0	11.0	16.0	23.0	26.0	27.0	28.0	26.0
82.5°	0.0	1.0	3.0	6.0	11.0	15.0	20.0	23.0	25.0	26.0	25.0
85°	0.0	1.0	2.0	5.0	9.0	11.0	10.0	7.0	6.0	7.0	5.0
87.5°	0.0	0.0	1.0	1.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0
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°	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0	630.0
2.5°	638.0	634.0	620.0	605.0	592.0	598.0	592.0	587.0	589.0	587.0	585.0
5°	673.0	655.0	625.0	612.0	601.0	600.0	597.0	596.0	597.0	597.0	588.0
7.5°	706.0	677.0	645.0	631.0	618.0	619.0	612.0	612.0	611.0	606.0	604.0
10°	756.0	717.0	676.0	651.0	635.0	632.0	625.0	618.0	618.0	618.0	608.0
12.5°	811.0	762.0	706.0	677.0	658.0	643.0	632.0	630.0	619.0	617.0	612.0
15°	859.0	797.0	726.0	686.0	662.0	642.0	625.0	614.0	609.0	606.0	602.0
17.5°	906.0	827.0	737.0	686.0	660.0	637.0	619.0	609.0	597.0	599.0	591.0
20°	969.0	859.0	740.0	673.0	641.0	619.0	595.0	590.0	583.0	577.0	579.0
22.5°	1030.0	882.0	731.0	657.0	611.0	585.0	573.0	567.0	564.0	559.0	552.0
25°	1085.0	907.0	717.0	628.0	579.0	560.0	549.0	548.0	541.0	541.0	528.0
27.5°	1141.0	916.0	693.0	594.0	551.0	540.0	535.0	533.0	530.0	523.0	514.0
30°	1205.0	919.0	658.0	559.0	526.0	514.0	521.0	526.0	513.0	500.0	504.0
32.5°	1258.0	912.0	616.0	526.0	508.0	502.0	516.0	521.0	506.0	492.0	485.0
35°	1321.9	895.0	575.0	500.0	490.0	502.0	514.0	514.0	484.0	467.0	463.0
37.5°	1418.9	876.0	537.0	478.0	471.0	496.0	512.0	501.0	454.0	433.0	428.0
40°	1522.9	864.0	500.0	456.0	461.0	486.0	495.0	461.0	413.0	400.0	396.0
42.5°	1673.9	840.0	467.0	437.0	452.0	472.0	472.0	411.0	393.0	386.0	385.0
45°	1861.9	823.0	438.0	421.0	439.0	444.0	428.0	385.0	372.0	370.0	371.0
47.5°	1953.9	790.0	408.0	402.0	415.0	416.0	374.0	364.0	353.0	350.0	348.0
50°	1939.9	731.0	369.0	377.0	395.0	385.0	341.0	343.0	333.0	332.0	327.0
52.5°	1841.9	638.0	330.0	349.0	369.0	340.0	314.0	312.0	312.0	299.0	294.0
55°	1632.9	514.0	283.0	307.0	331.0	286.0	279.0	277.0	272.0	260.0	257.0
57.5°	1292.9	377.0	213.0	239.0	281.0	243.0	242.0	233.0	220.0	211.0	211.0
60°	769.0	217.0	134.0	146.0	186.0	197.0	219.0	215.0	193.0	179.0	175.0
62.5°	351.0	112.0	85.0	87.0	100.0	128.0	172.0	199.0	168.0	144.0	142.0
65°	118.0	83.0	70.0	67.0	69.0	77.0	103.0	141.0	134.0	111.0	107.0
67.5°	72.0	74.0	66.0	61.0	61.0	60.0	59.0	64.0	79.0	77.0	78.0
70°	62.0	68.0	61.0	55.0	53.0	50.0	42.0	35.0	30.0	35.0	37.0
72.5°	50.0	54.0	52.0	47.0	42.0	38.0	30.0	23.0	17.0	15.0	15.0
75°	37.0	40.0	42.0	36.0	32.0	27.0	22.0	15.0	9.0	6.0	6.0
77.5°	27.0	30.0	31.0	28.0	24.0	19.0	14.0	10.0	5.0	2.0	2.0
80°	23.0	27.0	30.0	28.0	25.0	18.0	13.0	7.0	4.0	1.0	1.0
82.5°	22.0	27.0	30.0	27.0	24.0	17.0	13.0	8.0	3.0	1.0	1.0
85°	5.0	7.0	9.0	11.0	13.0	13.0	10.0	6.0	3.0	1.0	1.0
87.5°	2.0	2.0	2.0	2.0	2.0	2.0	2.0	2.0	1.0	1.0	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)