

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: P528085

Luminaire Tested: **GALN-SA3A-827-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P528085
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-SA3A-827-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 2700K, 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: 6638 lumens
Efficiency: N/A
Efficacy: 71.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

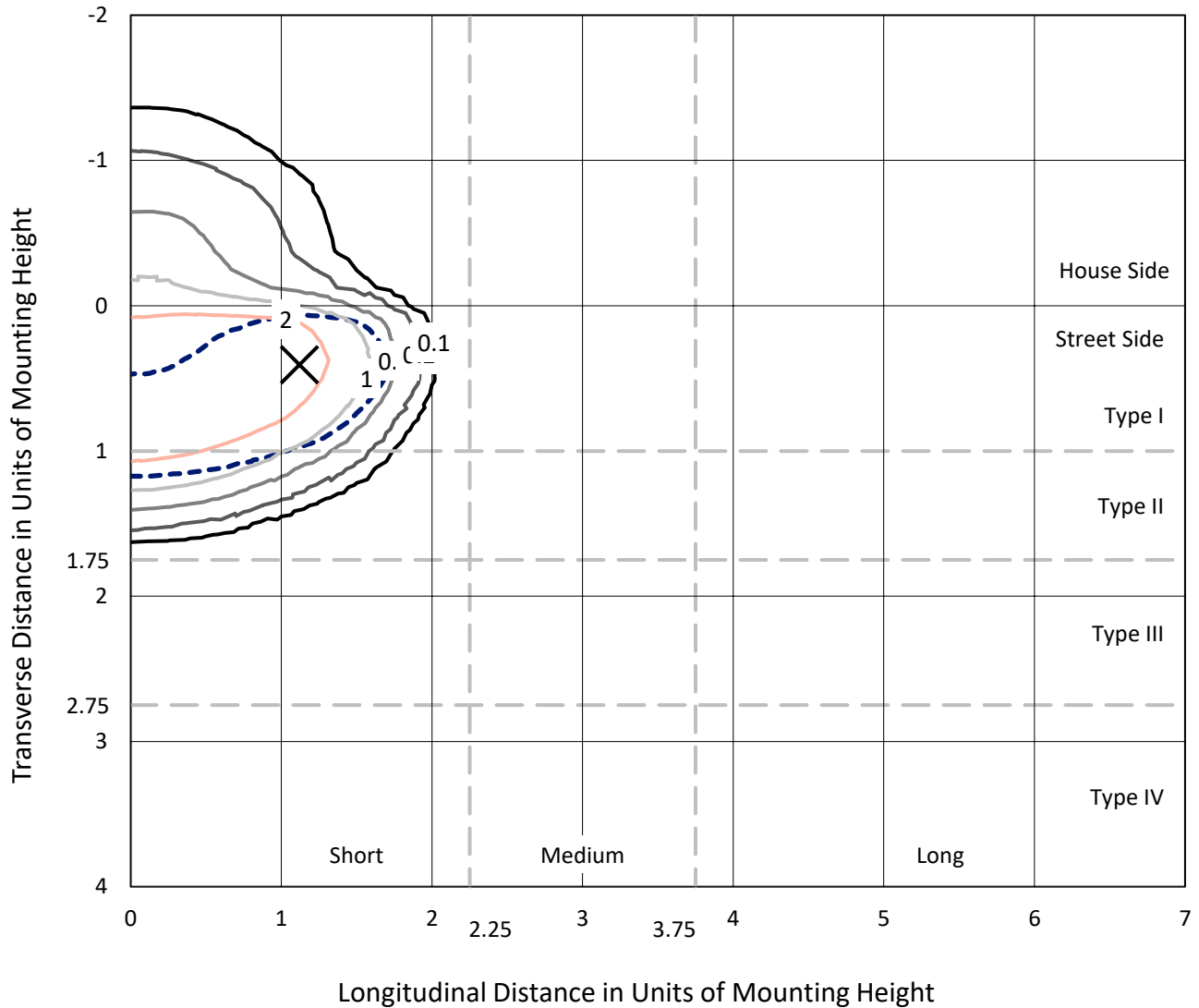
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

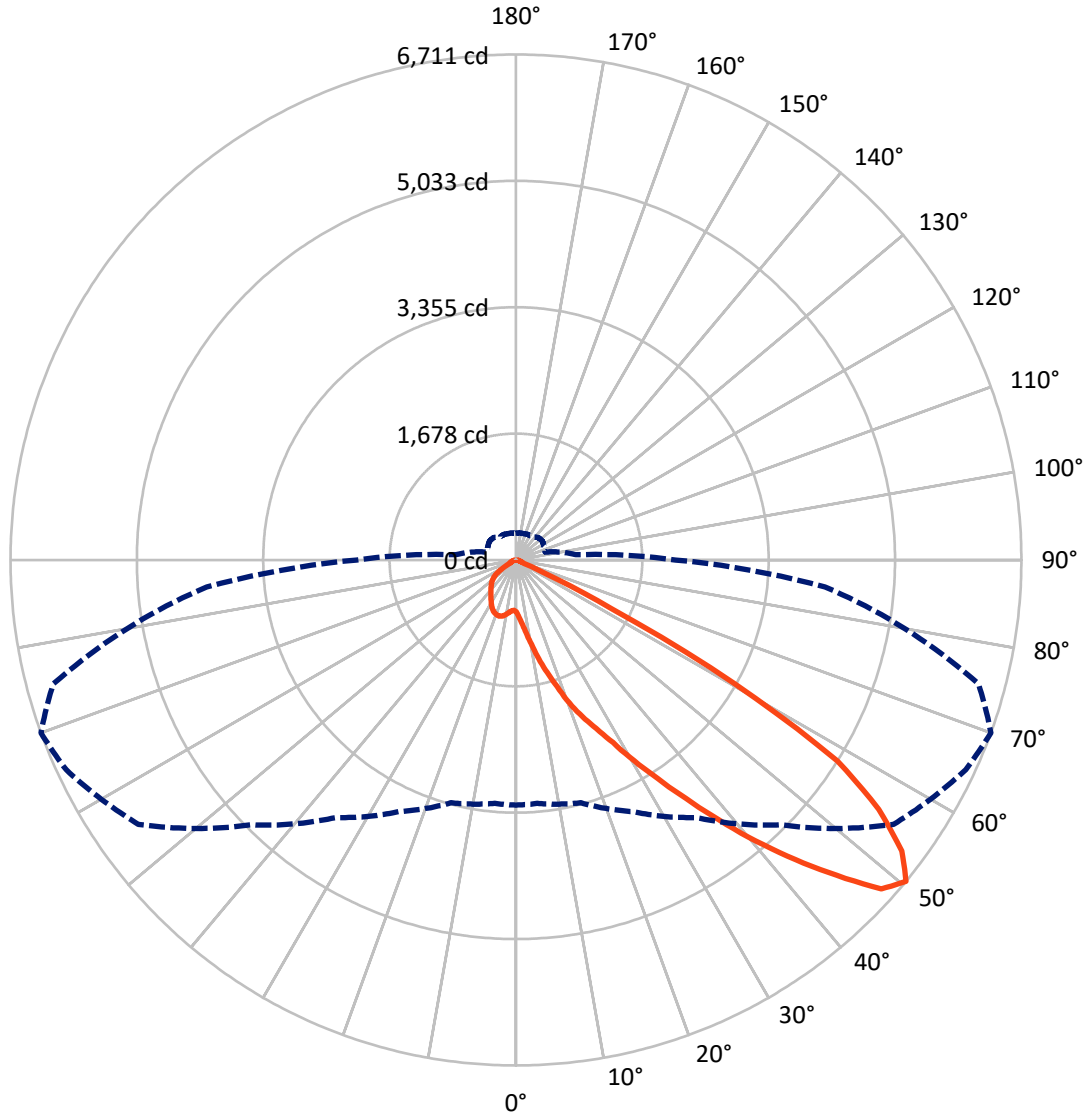
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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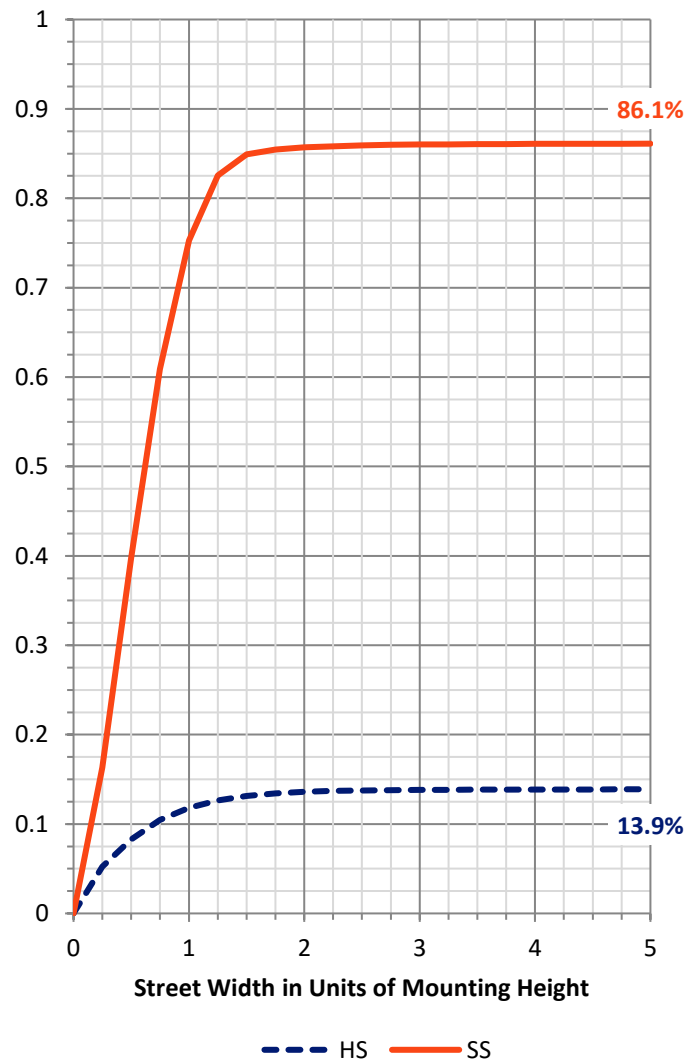
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	927.0	0.0	927.0
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	5711.0	0.0	5711.0
	% Fixture	86.0	0.0	86.0
Total	Lumens	6638.0	0.0	6638.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.4	1.3
10°-20°	386.8	5.8
20°-30°	811.3	12.2
30°-40°	1398.5	21.1
40°-50°	2043.9	30.8
50°-60°	1591.8	24.0
60°-70°	269.7	4.1
70°-80°	37.1	0.6
80°-90°	9.6	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°	6638.0	100.0
0°-180°	6638.0	100.0



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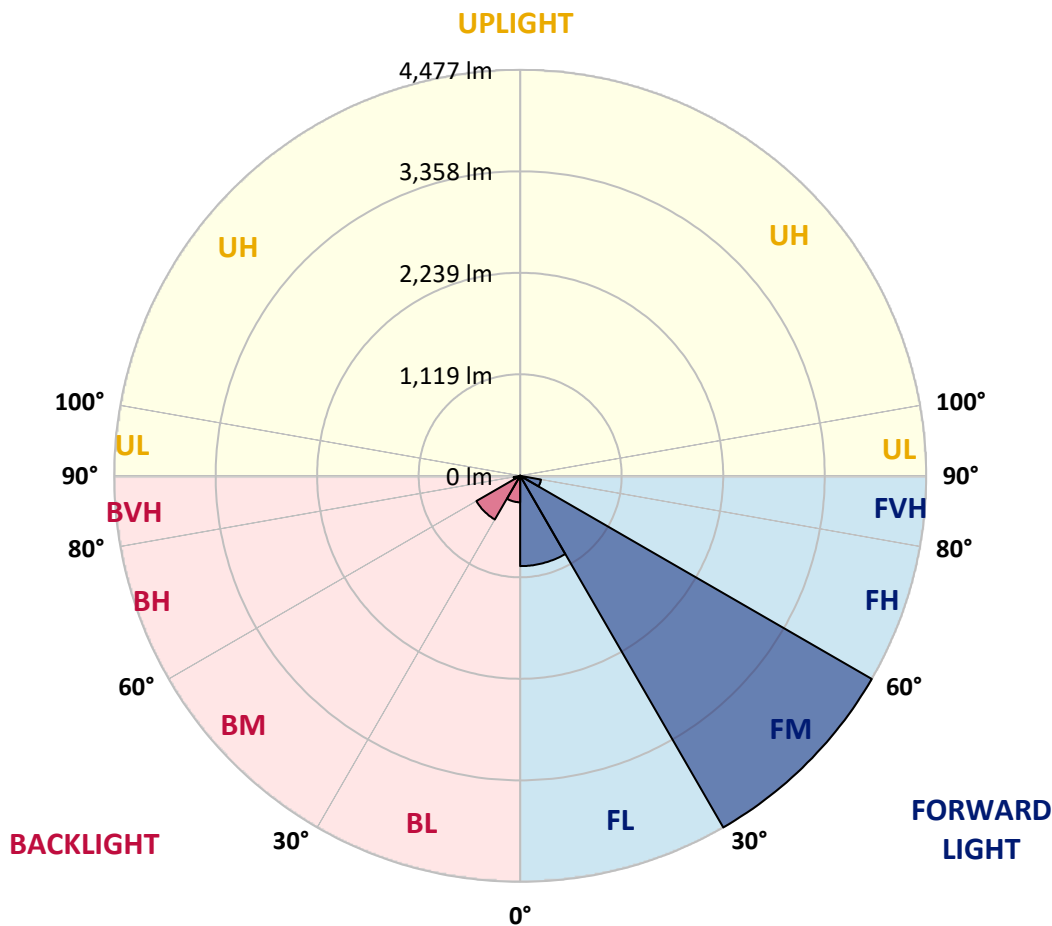
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	995.8	15.0			
FM (30°-60°)	4477.2	67.4			
FH (60°-80°)	233.5	3.5			G0/660
FVH (80°-90°)	4.4	0.1			G0/10
BL (0°-30°)	291.7	4.4	B1/500		
BM (30°-60°)	556.9	8.4	B1/1000		
BH (60°-80°)	73.2	1.1	B0/110		G0/110
BVH (80°-90°)	5.2	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°	687.6	687.6	687.6	687.6	687.6	687.6	687.6	687.6	687.6	687.6	687.6
2.5°	900.4	893.8	879.6	853.5	842.5	816.3	801.1	771.6	753.0	732.3	709.4
5°	1268.2	1234.3	1213.6	1184.1	1097.9	1044.4	956.0	880.7	845.8	807.6	755.2
7.5°	1648.0	1626.1	1597.8	1534.5	1475.5	1364.2	1212.5	1046.6	975.7	910.2	806.5
10°	1962.3	1901.2	1897.9	1851.0	1786.6	1653.4	1471.2	1264.9	1138.3	1042.3	879.6
12.5°	2181.7	2126.0	2151.1	2145.6	2085.6	1963.4	1752.7	1479.9	1347.8	1198.3	955.0
15°	2381.4	2358.5	2350.8	2344.3	2320.3	2229.7	2040.9	1741.8	1550.8	1370.8	1040.1
17.5°	2576.7	2517.8	2546.2	2551.6	2549.5	2467.6	2290.8	1990.7	1765.8	1553.0	1129.6
20°	2750.3	2755.7	2717.5	2709.9	2703.3	2700.1	2527.6	2237.3	2030.0	1744.0	1246.3
22.5°	2972.9	2934.7	2968.5	2946.7	2904.1	2878.0	2745.9	2455.6	2259.1	1974.3	1365.3
25°	3235.9	3266.5	3186.8	3178.1	3131.2	3040.6	2921.6	2700.1	2479.6	2188.2	1494.1
27.5°	3560.1	3506.6	3485.9	3437.8	3352.7	3314.5	3174.8	2952.2	2745.9	2413.0	1618.5
30°	3838.4	3824.2	3720.5	3663.7	3589.5	3588.4	3393.1	3293.8	3093.0	2765.5	1789.9
32.5°	4065.4	4003.2	3965.0	3925.7	3865.6	3882.0	3717.2	3664.8	3462.9	3093.0	1991.8
35°	4217.1	4172.3	4149.4	4089.4	4071.9	4145.0	4076.3	4054.5	3888.6	3553.5	2228.6
37.5°	4265.1	4279.3	4274.9	4199.6	4236.7	4434.3	4522.7	4465.9	4378.6	4039.2	2485.1
40°	4307.7	4317.5	4295.7	4384.1	4489.9	4714.7	5034.5	4940.7	4907.9	4531.4	2841.9
42.5°	4331.7	4324.0	4324.0	4476.8	4637.3	5089.1	5528.9	5466.7	5441.6	5055.2	3254.5
45°	4228.0	4153.8	4233.4	4440.8	4763.9	5273.5	5924.0	6010.2	5974.2	5678.4	3736.9
47.5°	3840.5	3886.4	3931.1	4208.3	4610.0	5216.8	6166.3	6459.8	6526.4	6202.3	4053.4
50°	3254.5	3244.7	3337.4	3686.7	4174.5	4972.3	6119.3	6589.7	6710.9	6359.4	4119.9
52.5°	2367.2	2439.2	2539.6	2886.7	3465.1	4339.3	5513.6	6254.7	6416.2	6166.3	4076.3
55°	1378.4	1298.7	1524.7	1818.2	2363.9	3273.0	4661.3	5544.2	5843.2	5814.8	3855.8
57.5°	552.2	534.8	612.3	825.1	1233.3	2028.9	3389.8	4555.4	5034.5	5325.9	3388.7
60°	242.3	236.8	278.3	336.1	504.2	935.3	1854.2	2833.2	3333.1	3721.6	2332.3
62.5°	174.6	172.4	193.2	213.9	266.3	407.1	779.2	1141.6	1423.2	1718.9	1044.4
65°	140.8	146.2	160.4	171.3	196.4	225.9	275.0	317.6	389.6	403.8	230.3
67.5°	114.6	119.0	132.1	144.1	148.4	122.2	126.6	111.3	111.3	99.3	79.7
70°	84.0	85.1	100.4	114.6	91.7	49.1	86.2	86.2	77.5	74.2	67.7
72.5°	62.2	63.3	75.3	70.9	36.0	30.6	63.3	69.8	63.3	60.0	54.6
75°	45.8	46.9	39.3	16.4	15.3	19.6	37.1	48.0	45.8	44.7	41.5
77.5°	8.7	6.5	5.5	7.6	10.9	16.4	24.0	29.5	30.6	32.7	30.6
80°	1.1	1.1	3.3	6.5	12.0	17.5	25.1	28.4	29.5	30.6	28.4
82.5°	0.0	1.1	3.3	6.5	12.0	16.4	21.8	25.1	27.3	28.4	27.3
85°	0.0	1.1	2.2	5.5	9.8	12.0	10.9	7.6	6.5	7.6	5.5
87.5°	0.0	0.0	1.1	1.1	2.2	2.2	2.2	2.2	2.2	2.2	2.2
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°	687.6	687.6	687.6	687.6	687.6	687.6	687.6	687.6	687.6	687.6	687.6
2.5°	696.3	691.9	676.7	660.3	646.1	652.6	646.1	640.6	642.8	640.6	638.5
5°	734.5	714.9	682.1	667.9	655.9	654.8	651.6	650.5	651.6	651.6	641.7
7.5°	770.5	738.9	703.9	688.7	674.5	675.6	667.9	667.9	666.8	661.4	659.2
10°	825.1	782.5	737.8	710.5	693.0	689.7	682.1	674.5	674.5	674.5	663.6
12.5°	885.1	831.6	770.5	738.9	718.1	701.8	689.7	687.6	675.6	673.4	667.9
15°	937.5	869.8	792.3	748.7	722.5	700.7	682.1	670.1	664.6	661.4	657.0
17.5°	988.8	902.6	804.3	748.7	720.3	695.2	675.6	664.6	651.6	653.7	645.0
20°	1057.5	937.5	807.6	734.5	699.6	675.6	649.4	643.9	636.3	629.7	631.9
22.5°	1124.1	962.6	797.8	717.0	666.8	638.5	625.4	618.8	615.5	610.1	602.4
25°	1184.1	989.9	782.5	685.4	631.9	611.2	599.2	598.1	590.4	590.4	576.2
27.5°	1245.3	999.7	756.3	648.3	601.3	589.3	583.9	581.7	578.4	570.8	561.0
30°	1315.1	1003.0	718.1	610.1	574.1	561.0	568.6	574.1	559.9	545.7	550.1
32.5°	1372.9	995.3	672.3	574.1	554.4	547.9	563.1	568.6	552.2	537.0	529.3
35°	1442.8	976.8	627.5	545.7	534.8	547.9	561.0	561.0	528.2	509.7	505.3
37.5°	1548.7	956.0	586.1	521.7	514.0	541.3	558.8	546.8	495.5	472.6	467.1
40°	1662.2	942.9	545.7	497.7	503.1	530.4	540.2	503.1	450.7	436.5	432.2
42.5°	1827.0	916.8	509.7	476.9	493.3	515.1	515.1	448.6	428.9	421.3	420.2
45°	2032.1	898.2	478.0	459.5	479.1	484.6	467.1	420.2	406.0	403.8	404.9
47.5°	2132.5	862.2	445.3	438.7	452.9	454.0	408.2	397.3	385.3	382.0	379.8
50°	2117.3	797.8	402.7	411.4	431.1	420.2	372.2	374.3	363.4	362.3	356.9
52.5°	2010.3	696.3	360.2	380.9	402.7	371.1	342.7	340.5	340.5	326.3	320.9
55°	1782.2	561.0	308.9	335.1	361.2	312.1	304.5	302.3	296.9	283.8	280.5
57.5°	1411.1	411.4	232.5	260.8	306.7	265.2	264.1	254.3	240.1	230.3	230.3
60°	839.3	236.8	146.2	159.3	203.0	215.0	239.0	234.6	210.6	195.4	191.0
62.5°	383.1	122.2	92.8	94.9	109.1	139.7	187.7	217.2	183.4	157.2	155.0
65°	128.8	90.6	76.4	73.1	75.3	84.0	112.4	153.9	146.2	121.1	116.8
67.5°	78.6	80.8	72.0	66.6	66.6	65.5	64.4	69.8	86.2	84.0	85.1
70°	67.7	74.2	66.6	60.0	57.8	54.6	45.8	38.2	32.7	38.2	40.4
72.5°	54.6	58.9	56.8	51.3	45.8	41.5	32.7	25.1	18.6	16.4	16.4
75°	40.4	43.7	45.8	39.3	34.9	29.5	24.0	16.4	9.8	6.5	6.5
77.5°	29.5	32.7	33.8	30.6	26.2	20.7	15.3	10.9	5.5	2.2	2.2
80°	25.1	29.5	32.7	30.6	27.3	19.6	14.2	7.6	4.4	1.1	1.1
82.5°	24.0	29.5	32.7	29.5	26.2	18.6	14.2	8.7	3.3	1.1	1.1
85°	5.5	7.6	9.8	12.0	14.2	14.2	10.9	6.5	3.3	1.1	1.1
87.5°	2.2	2.2	2.2	2.2	2.2	2.2	2.2	2.2	1.1	1.1	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)