

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: P651801

Luminaire Tested: **GALN-SA3A-840-U-T2R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P651801
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-840-U-T2R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 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: 7593.4 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G0

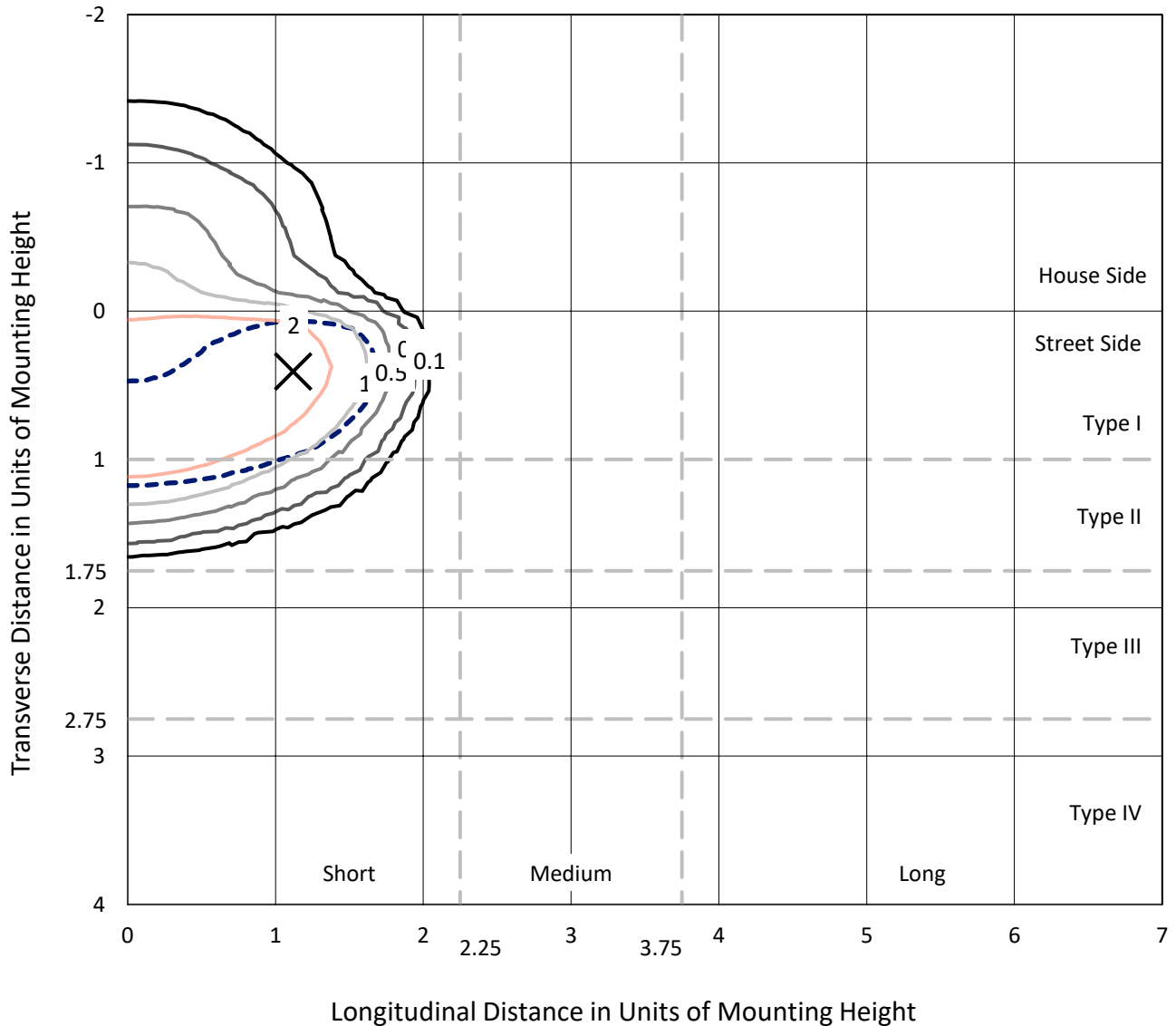
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

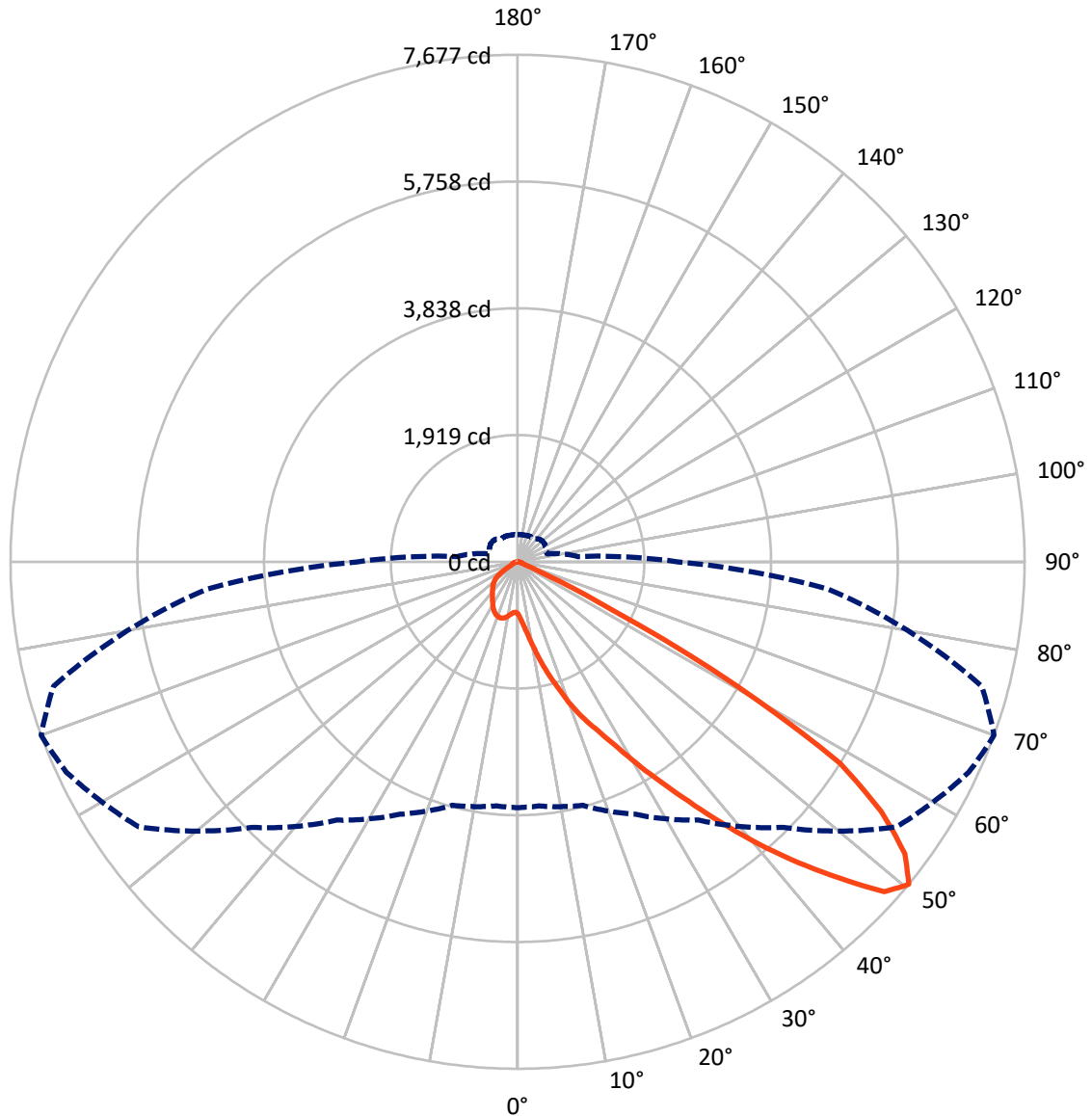
✕ Max cd
 - - - 1/2 Max cd



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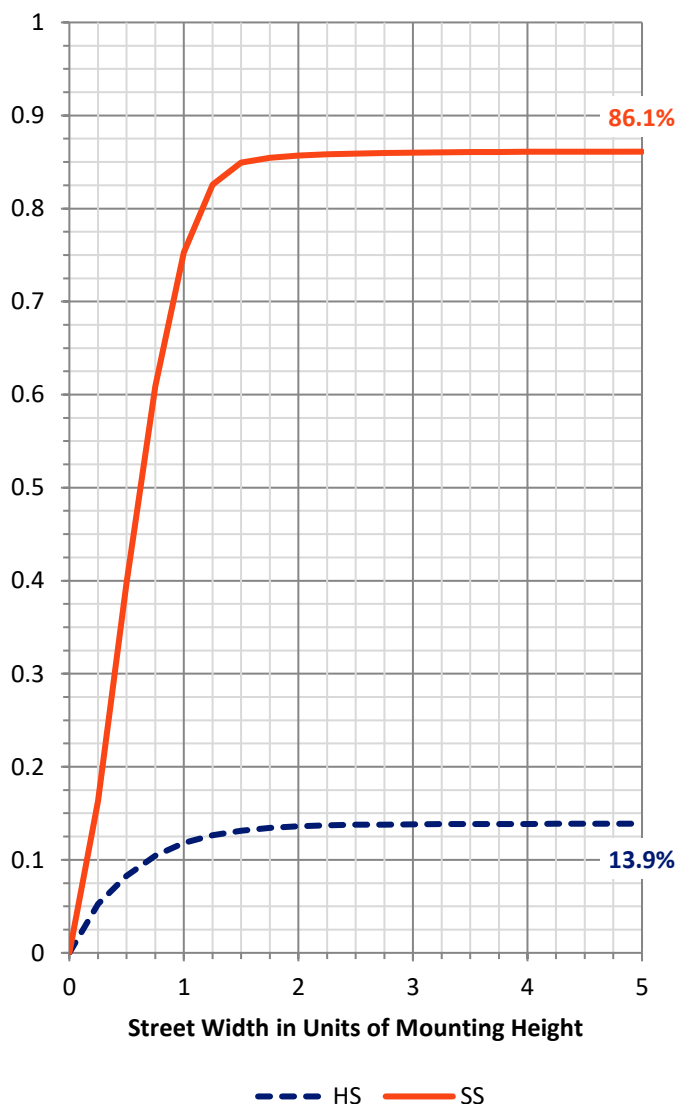
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1060.5	0.0	1060.5
	% Fixture	14.0	0.0	14.0
Street Side	Lumens	6532.9	0.0	6532.9
	% Fixture	86.0	0.0	86.0
Total	Lumens	7593.4	0.0	7593.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	102.3	1.3
10°-20°	442.4	5.8
20°-30°	928.1	12.2
30°-40°	1599.8	21.1
40°-50°	2338.0	30.8
50°-60°	1820.9	24.0
60°-70°	308.5	4.1
70°-80°	42.4	0.6
80°-90°	11.0	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°	7593.4	100.0
0°-180°	7593.4	100.0

Coefficient of Utilization

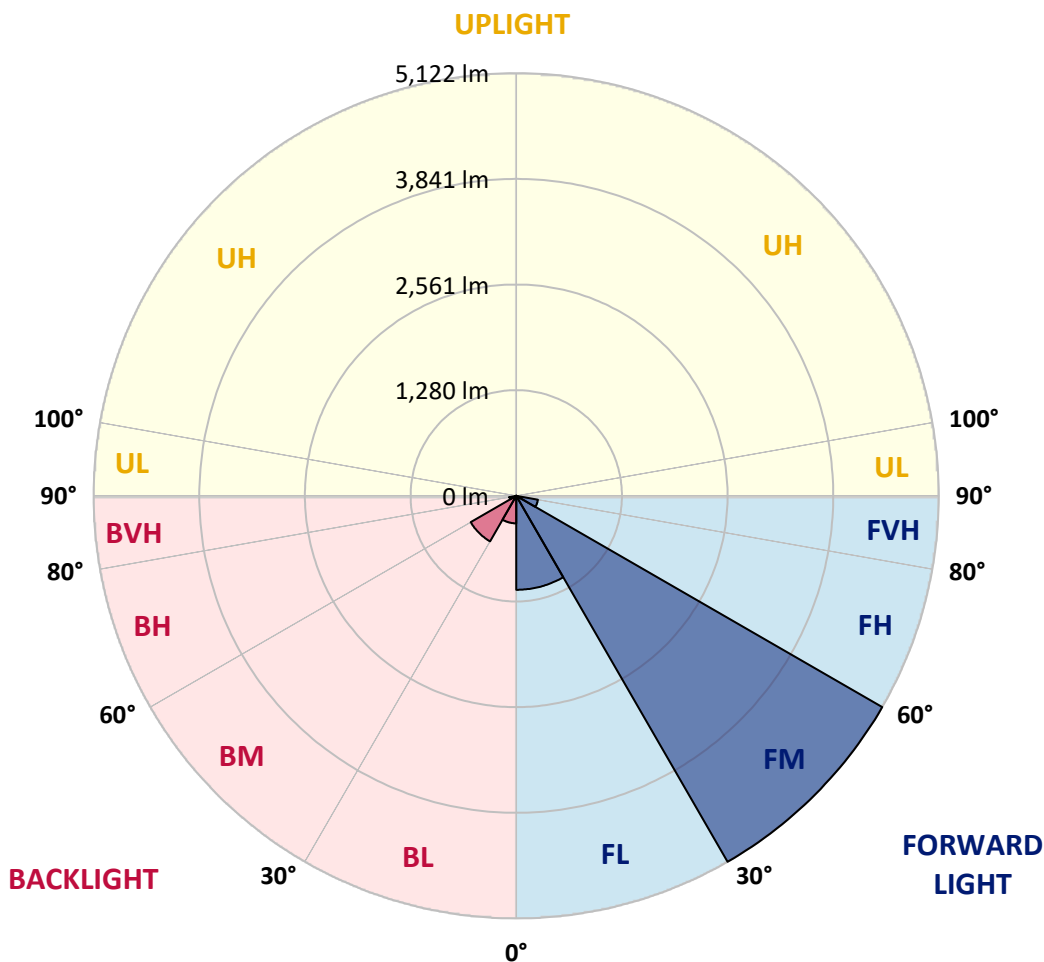


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1139.1	15.0			
FM (30°-60°)	5121.6	67.4			
FH (60°-80°)	267.1	3.5			G0/660
FVH (80°-90°)	5.1	0.1			G0/10
BL (0°-30°)	333.7	4.4	B1/500		
BM (30°-60°)	637.1	8.4	B1/1000		
BH (60°-80°)	83.8	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°	786.5	786.5	786.5	786.5	786.5	786.5	786.5	786.5	786.5	786.5	786.5
2.5°	1030.0	1022.5	1006.3	976.3	963.8	933.8	916.4	882.6	861.4	837.7	811.5
5°	1450.7	1412.0	1388.2	1354.6	1255.9	1194.8	1093.6	1007.5	967.6	923.8	864.0
7.5°	1885.2	1860.2	1827.7	1755.3	1687.9	1560.6	1387.1	1197.2	1116.1	1041.2	922.6
10°	2244.7	2174.8	2171.0	2117.4	2043.7	1891.4	1682.9	1446.9	1302.1	1192.3	1006.3
12.5°	2495.7	2432.0	2460.7	2454.5	2385.8	2246.0	2005.0	1692.9	1541.8	1370.8	1092.4
15°	2724.1	2697.9	2689.2	2681.7	2654.2	2550.6	2334.6	1992.5	1774.1	1568.0	1189.8
17.5°	2947.6	2880.2	2912.6	2918.9	2916.4	2822.7	2620.5	2277.2	2020.0	1776.5	1292.1
20°	3146.1	3152.3	3108.7	3099.9	3092.4	3088.7	2891.4	2559.3	2322.1	1995.0	1425.7
22.5°	3400.8	3357.1	3395.8	3370.8	3322.1	3292.2	3141.1	2809.0	2584.3	2258.4	1561.8
25°	3701.7	3736.6	3645.5	3635.5	3581.8	3478.2	3342.1	3088.7	2836.5	2503.2	1709.2
27.5°	4072.5	4011.3	3987.6	3932.6	3835.2	3791.6	3631.8	3377.0	3141.1	2760.3	1851.5
30°	4390.8	4374.5	4256.0	4191.0	4106.2	4104.9	3881.5	3767.8	3538.1	3163.6	2047.5
32.5°	4650.5	4579.3	4535.6	4490.7	4422.1	4440.7	4252.3	4192.3	3961.4	3538.1	2278.4
35°	4824.1	4772.8	4746.6	4678.0	4658.0	4741.6	4663.0	4638.0	4448.2	4065.0	2549.3
37.5°	4879.0	4895.2	4890.2	4804.0	4846.5	5072.5	5173.6	5108.7	5008.8	4620.5	2842.7
40°	4927.7	4938.9	4913.9	5015.1	5136.2	5393.3	5759.1	5651.8	5614.3	5183.6	3251.0
42.5°	4955.1	4946.3	4946.3	5121.2	5304.7	5821.6	6324.7	6253.5	6224.8	5782.8	3722.9
45°	4836.5	4751.6	4842.7	5080.0	5449.5	6032.5	6776.6	6875.3	6834.1	6495.7	4274.7
47.5°	4393.3	4445.8	4496.9	4814.1	5273.5	5967.6	7053.7	7389.6	7465.7	7094.9	4636.8
50°	3722.9	3711.7	3817.8	4217.3	4775.4	5687.9	7000.1	7538.1	7676.7	7274.7	4712.9
52.5°	2707.9	2790.3	2905.2	3302.2	3963.8	4963.8	6307.2	7154.9	7339.7	7053.7	4663.0
55°	1576.8	1485.6	1744.1	2080.0	2704.2	3744.1	5332.1	6342.1	6684.2	6651.7	4410.8
57.5°	631.8	611.7	700.4	943.9	1410.8	2320.9	3877.7	5211.0	5759.1	6092.5	3876.4
60°	277.2	270.9	318.3	384.5	576.8	1069.9	2121.1	3241.0	3812.8	4257.2	2667.9
62.5°	199.7	197.2	221.0	244.7	304.6	465.7	891.4	1305.9	1628.0	1966.3	1194.8
65°	161.1	167.3	183.5	196.0	224.7	258.4	314.6	363.3	445.7	462.0	263.4
67.5°	131.1	136.1	151.0	164.8	169.8	139.9	144.8	127.3	127.3	113.6	91.2
70°	96.1	97.4	114.9	131.1	104.9	56.2	98.6	98.6	88.6	84.9	77.4
72.5°	71.1	72.4	86.1	81.2	41.2	35.0	72.4	79.9	72.4	68.6	62.4
75°	52.4	53.7	44.9	18.8	17.5	22.5	42.5	54.9	52.4	51.2	47.4
77.5°	10.0	7.5	6.2	8.7	12.4	18.8	27.5	33.7	35.0	37.4	35.0
80°	1.3	1.3	3.8	7.5	13.7	20.0	28.7	32.5	33.7	35.0	32.5
82.5°	0.0	1.3	3.8	7.5	13.7	18.8	25.0	28.7	31.2	32.5	31.2
85°	0.0	1.3	2.5	6.2	11.3	13.7	12.4	8.7	7.5	8.7	6.2
87.5°	0.0	0.0	1.3	1.3	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°	786.5	786.5	786.5	786.5	786.5	786.5	786.5	786.5	786.5	786.5	786.5
2.5°	796.5	791.5	774.1	755.3	739.1	746.6	739.1	732.8	735.4	732.8	730.3
5°	840.2	817.7	780.3	764.0	750.3	749.1	745.3	744.1	745.3	745.3	734.1
7.5°	881.4	845.2	805.3	787.8	771.5	772.8	764.0	764.0	762.8	756.6	754.0
10°	943.9	895.2	843.9	812.7	792.7	789.0	780.3	771.5	771.5	771.5	759.1
12.5°	1012.5	951.3	881.4	845.2	821.5	802.7	789.0	786.5	772.8	770.3	764.0
15°	1072.4	995.0	906.3	856.5	826.5	801.5	780.3	766.6	760.3	756.6	751.6
17.5°	1131.1	1032.5	920.1	856.5	824.0	795.2	772.8	760.3	745.3	747.8	737.8
20°	1209.8	1072.4	923.8	840.2	800.3	772.8	742.9	736.5	727.9	720.3	722.8
22.5°	1285.9	1101.1	912.7	820.2	762.8	730.3	715.4	707.9	704.2	697.9	689.1
25°	1354.6	1132.3	895.2	784.1	722.8	699.1	685.4	684.2	675.4	675.4	659.2
27.5°	1424.5	1143.6	865.1	741.6	687.9	674.1	667.9	665.4	661.7	653.0	641.7
30°	1504.4	1147.3	821.5	697.9	656.7	641.7	650.4	656.7	640.4	624.2	629.2
32.5°	1570.6	1138.6	769.0	656.7	634.2	626.7	644.2	650.4	631.8	614.3	605.5
35°	1650.5	1117.4	717.9	624.2	611.7	626.7	641.7	641.7	604.3	583.1	578.0
37.5°	1771.6	1093.6	670.4	596.8	588.0	619.2	639.2	625.5	566.8	540.6	534.4
40°	1901.4	1078.7	624.2	569.3	575.5	606.8	618.0	575.5	515.6	499.4	494.4
42.5°	2089.9	1048.7	583.1	545.6	564.3	589.3	589.3	513.1	490.6	481.9	480.6
45°	2324.6	1027.4	546.8	525.6	548.1	554.3	534.4	480.6	464.4	462.0	463.1
47.5°	2439.5	986.2	509.4	501.9	518.1	519.3	466.9	454.5	440.7	437.0	434.5
50°	2422.0	912.7	460.7	470.7	493.2	480.6	425.7	428.2	415.7	414.4	408.2
52.5°	2299.6	796.5	412.0	435.7	460.7	424.5	392.0	389.6	389.6	373.3	367.0
55°	2038.8	641.7	353.3	383.2	413.3	357.1	348.3	345.8	339.6	324.6	320.8
57.5°	1614.2	470.7	265.9	298.4	350.8	303.3	302.1	290.9	274.7	263.4	263.4
60°	960.1	270.9	167.3	182.2	232.2	245.9	273.4	268.4	240.9	223.5	218.5
62.5°	438.2	139.9	106.1	108.7	124.8	159.8	214.7	248.4	209.7	179.8	177.3
65°	147.3	103.6	87.4	83.7	86.1	96.1	128.6	176.0	167.3	138.6	133.6
67.5°	89.9	92.4	82.4	76.2	76.2	74.9	73.7	79.9	98.6	96.1	97.4
70°	77.4	84.9	76.2	68.6	66.2	62.4	52.4	43.7	37.4	43.7	46.2
72.5°	62.4	67.4	64.9	58.7	52.4	47.4	37.4	28.7	21.2	18.8	18.8
75°	46.2	50.0	52.4	44.9	39.9	33.7	27.5	18.8	11.3	7.5	7.5
77.5°	33.7	37.4	38.7	35.0	29.9	23.7	17.5	12.4	6.2	2.5	2.5
80°	28.7	33.7	37.4	35.0	31.2	22.5	16.2	8.7	5.0	1.3	1.3
82.5°	27.5	33.7	37.4	33.7	29.9	21.2	16.2	10.0	3.8	1.3	1.3
85°	6.2	8.7	11.3	13.7	16.2	16.2	12.4	7.5	3.8	1.3	1.3
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	1.3	1.3	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)