

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: P647843

Luminaire Tested: **GALN-SA3A-835-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P647843
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-7)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA3A-835-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8558.2 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

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

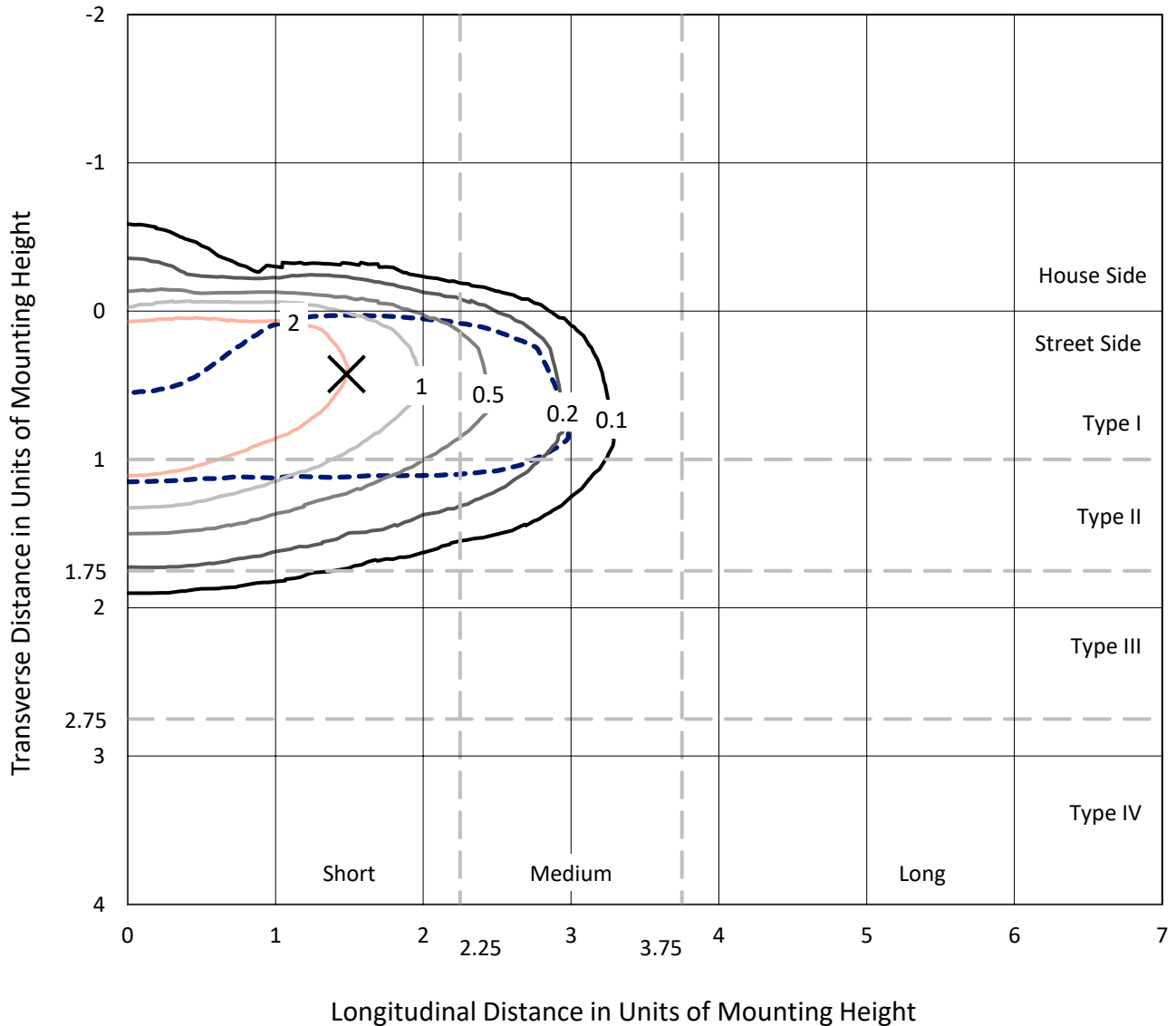




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Iso-Footcandle Lines of Horizontal Illumination

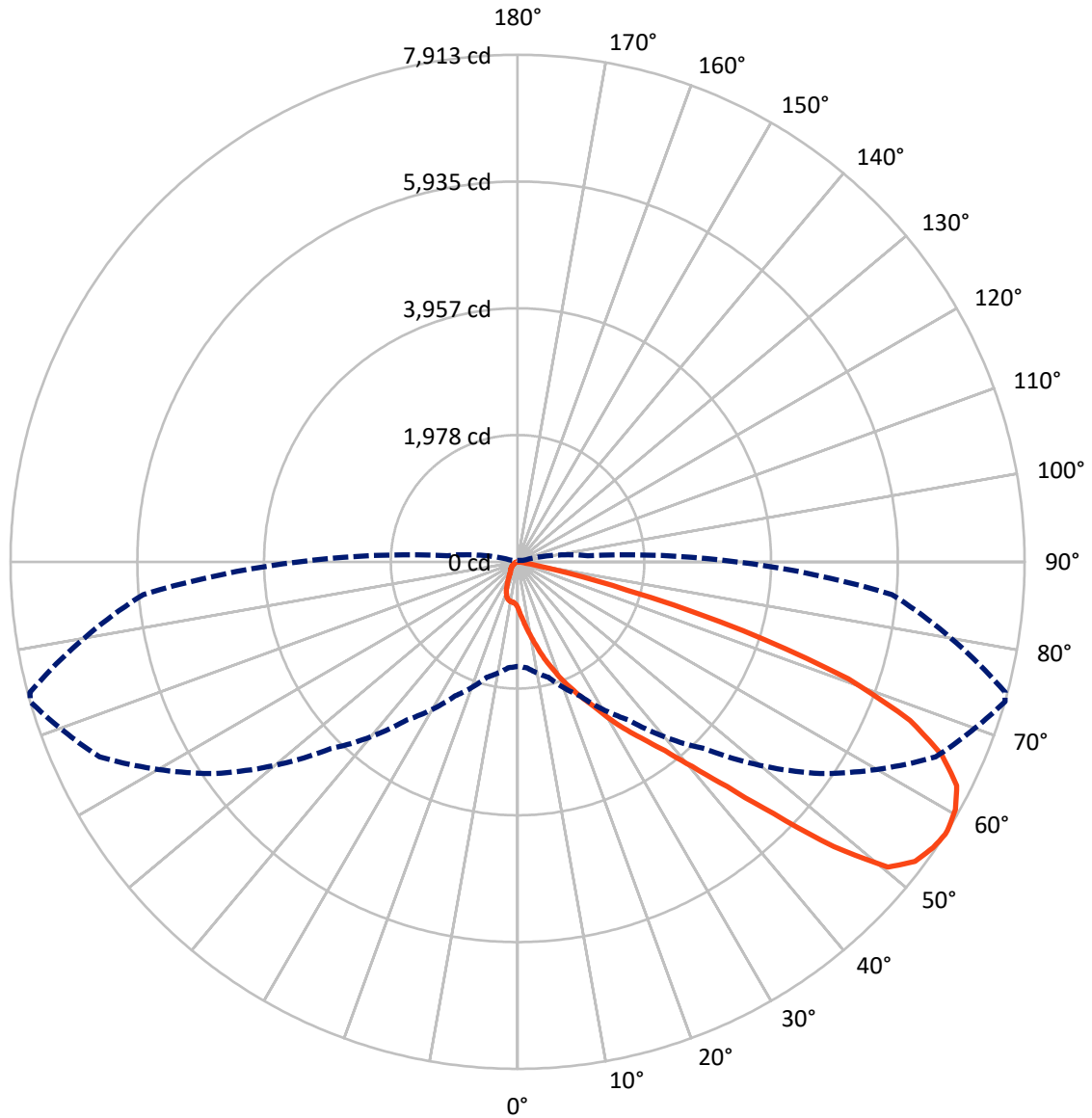
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 74-Deg Lateral - - - Horizontal Cone Through 57-Deg Vertical

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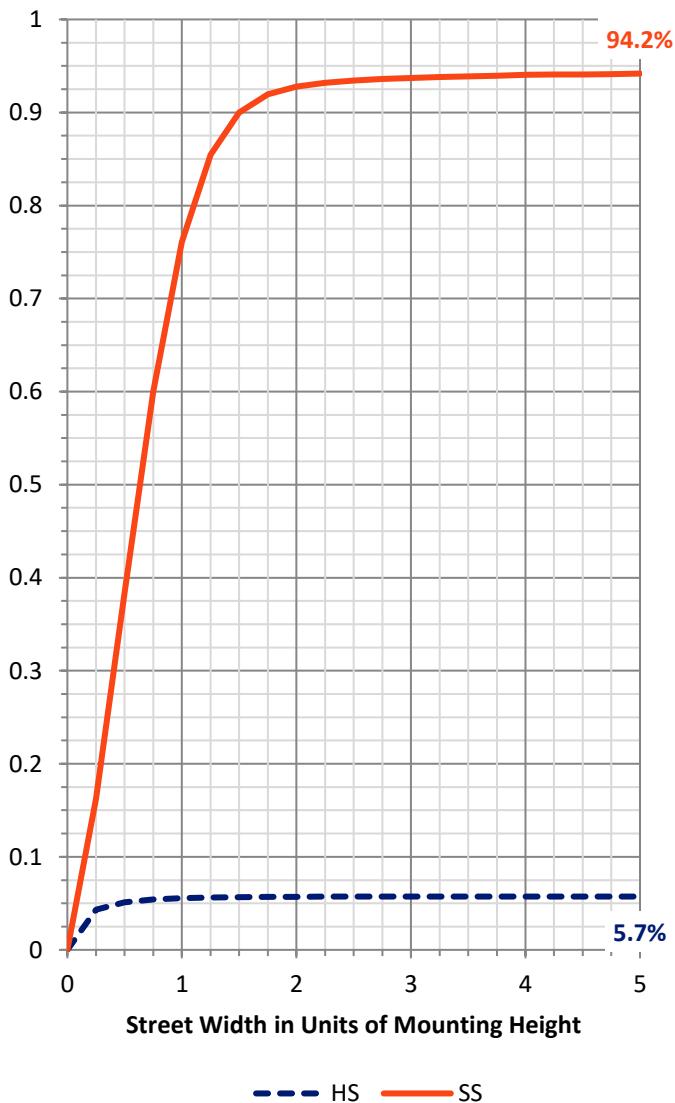
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	493.6	0.0	493.6
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	8064.6	0.0	8064.6
	% Fixture	94.2	0.0	94.2
Total	Lumens	8558.2	0.0	8558.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.5	1.0
10°-20°	341.0	4.0
20°-30°	729.6	8.5
30°-40°	1341.1	15.7
40°-50°	2055.9	24.0
50°-60°	2174.9	25.4
60°-70°	1420.2	16.6
70°-80°	388.1	4.5
80°-90°	20.9	0.2
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°	8558.2	100.0
0°-180°	8558.2	100.0

Coefficient of Utilization



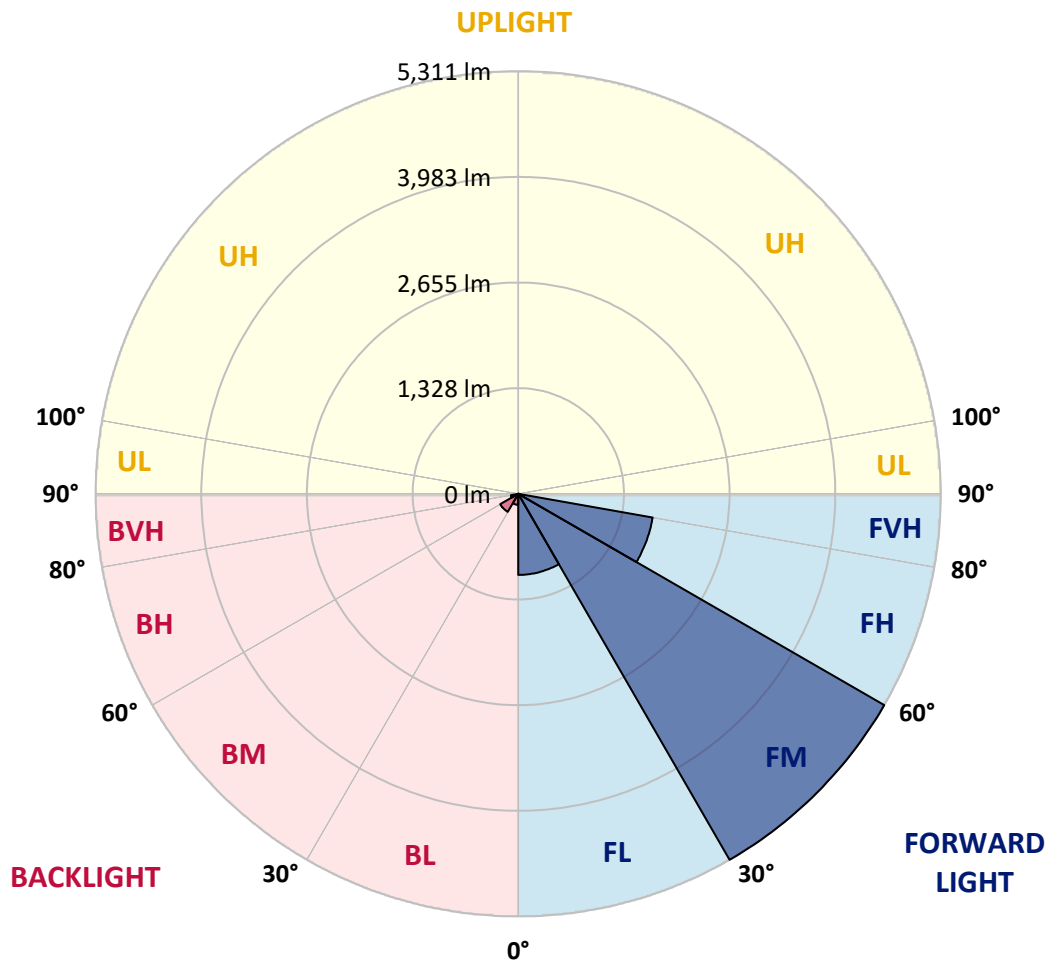
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1019.3	11.9			
FM (30°-60°)	5310.5	62.1			
FH (60°-80°)	1715.6	20.0			G1/1800
FVH (80°-90°)	19.2	0.2			G1/100
BL (0°-30°)	137.9	1.6	B1/500		
BM (30°-60°)	261.3	3.1	B1/1000		
BH (60°-80°)	92.7	1.1	B0/110		G0/110
BVH (80°-90°)	1.7	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	716.8	716.8	716.8	716.8	716.8	716.8	716.8	716.8	716.8	716.8	716.8
2.5°	1048.8	1039.4	1020.5	1014.0	986.2	943.0	905.2	854.4	814.2	810.1	761.6
5°	1404.5	1383.2	1374.4	1331.8	1265.1	1202.5	1094.9	1013.4	919.4	912.4	814.8
7.5°	1747.3	1717.7	1708.8	1668.7	1590.7	1492.0	1352.6	1204.2	1055.3	1041.7	886.4
10°	1995.4	1999.5	1983.6	1957.0	1893.8	1793.3	1621.4	1418.7	1206.6	1189.5	966.7
12.5°	2173.3	2172.7	2175.6	2175.0	2141.3	2065.2	1884.3	1651.0	1373.2	1339.6	1058.9
15°	2289.1	2290.8	2299.7	2330.4	2334.0	2286.7	2136.0	1873.1	1566.4	1524.5	1158.7
17.5°	2406.1	2418.5	2432.6	2461.6	2487.6	2468.7	2362.3	2104.7	1741.3	1710.0	1265.6
20°	2599.2	2616.4	2608.2	2625.9	2639.5	2641.2	2559.1	2318.6	1953.4	1900.9	1387.9
22.5°	2908.3	2907.7	2886.5	2854.5	2828.0	2826.8	2752.3	2538.4	2146.0	2095.2	1510.9
25°	3298.9	3300.7	3259.3	3168.3	3102.1	3021.2	2935.5	2731.0	2352.3	2289.6	1640.3
27.5°	3746.7	3735.5	3672.9	3547.6	3416.5	3278.2	3154.7	2955.0	2570.9	2518.9	1788.6
30°	4149.2	4145.0	4071.8	3918.7	3746.2	3607.4	3428.3	3235.7	2854.0	2790.1	1954.6
32.5°	4523.8	4529.7	4428.0	4269.7	4103.1	3943.0	3753.9	3503.9	3131.7	3041.3	2135.5
35°	4816.2	4822.2	4717.0	4585.2	4413.8	4280.9	4100.7	3789.9	3405.8	3329.6	2343.4
37.5°	4972.3	4980.0	4919.0	4819.8	4712.9	4646.1	4478.3	4158.0	3739.1	3693.0	2589.2
40°	5001.8	5010.7	4984.1	4957.5	4951.5	4999.5	4950.4	4591.7	4201.2	4129.1	2955.6
42.5°	4913.2	4925.0	4936.8	4995.9	5116.4	5291.9	5462.7	5180.2	4796.2	4699.3	3403.5
45°	4680.4	4679.2	4725.9	4878.9	5148.9	5523.5	5998.0	5917.1	5606.8	5491.6	4036.3
47.5°	4282.1	4276.2	4377.2	4595.3	5016.0	5566.1	6434.7	6811.6	6641.5	6535.2	4716.4
50°	3675.2	3704.2	3863.2	4167.4	4685.7	5437.3	6569.4	7398.4	7490.6	7377.7	5265.9
52.5°	2964.4	2963.3	3212.6	3625.6	4196.4	5153.6	6475.5	7504.7	7766.5	7680.3	5536.5
55°	2194.0	2209.3	2468.7	2885.3	3561.2	4636.1	6168.8	7395.4	7871.7	7810.8	5715.0
57°	1632.0	1659.2	1867.1	2308.0	3008.2	4123.7	5760.5	7199.8	7913.1	7880.0	5863.3
57.5°	1523.3	1524.5	1727.1	2127.7	2846.3	3927.0	5643.5	7118.3	7911.9	7893.6	5887.5
60°	937.7	967.2	1107.3	1438.2	2083.4	3064.9	4859.4	6649.8	7850.4	7877.1	5991.0
62.5°	561.3	573.8	664.8	866.9	1343.1	2237.1	3976.6	6050.0	7690.3	7771.3	5983.8
65°	361.0	364.0	405.4	524.7	839.6	1512.1	3064.3	5257.6	7276.1	7425.0	5749.9
67.5°	278.9	283.6	300.2	344.5	486.9	941.9	2167.3	4412.1	6606.0	6798.1	5182.6
70°	247.6	249.9	255.9	270.1	322.0	531.8	1348.4	3446.6	5478.0	5532.4	4055.8
72.5°	202.1	208.6	226.9	231.6	255.3	332.1	750.4	2313.3	3680.6	3694.2	2269.0
75°	156.6	157.8	184.9	198.6	215.1	228.6	335.0	1166.4	1767.9	1673.3	874.5
77.5°	117.0	122.3	134.8	151.8	175.5	163.6	150.1	439.6	549.0	538.9	254.1
80°	75.0	78.0	94.0	114.0	136.5	107.0	84.5	128.8	120.5	124.1	60.8
82.5°	37.8	38.4	60.3	92.8	86.8	53.8	53.2	52.6	44.9	44.3	28.3
85°	4.1	8.8	39.0	53.2	39.0	17.7	24.8	24.2	23.6	24.2	16.5
87.5°	0.6	0.6	6.5	7.7	5.3	5.9	7.1	7.7	9.5	8.8	7.1
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°	716.8	716.8	716.8	716.8	716.8	716.8	716.8	716.8	716.8	716.8	716.8
2.5°	738.0	714.4	670.6	628.7	597.4	577.3	551.3	541.8	528.2	526.5	520.0
5°	769.9	725.0	648.8	588.5	540.0	503.4	471.5	444.9	423.7	418.9	421.3
7.5°	815.4	748.6	642.3	560.2	492.8	430.2	379.4	348.0	325.6	317.3	318.4
10°	866.9	779.9	641.1	530.0	427.2	350.4	294.9	267.1	254.1	249.4	244.1
12.5°	927.7	816.0	638.1	483.3	355.1	279.5	239.9	223.4	210.9	207.4	207.4
15°	996.2	854.4	624.0	425.4	288.4	231.1	204.4	191.4	187.3	183.8	183.8
17.5°	1067.7	892.2	594.5	353.9	239.3	197.9	181.4	173.7	167.8	163.6	163.6
20°	1149.3	929.4	547.2	290.7	202.1	176.6	163.6	154.8	150.1	146.5	145.3
22.5°	1226.6	959.6	486.9	238.7	176.1	158.9	147.1	137.7	133.0	131.2	131.2
25°	1307.1	977.9	414.2	197.3	160.7	144.2	131.2	123.5	119.3	118.2	117.6
27.5°	1385.0	988.5	350.4	172.6	146.5	130.6	118.2	112.3	108.1	107.0	107.5
30°	1479.6	990.3	288.4	154.8	134.1	117.6	106.3	101.0	98.7	97.5	96.9
32.5°	1575.3	988.0	242.3	144.2	122.3	106.3	96.9	92.8	91.0	89.3	89.3
35°	1682.8	975.5	206.2	133.5	111.1	96.9	88.6	85.1	82.7	81.0	80.3
37.5°	1816.4	969.0	185.6	121.8	101.0	88.0	80.3	76.8	75.0	72.7	72.1
40°	2026.7	998.0	179.1	111.1	91.0	79.8	72.7	68.5	66.2	63.8	63.2
42.5°	2289.1	1048.8	168.4	100.5	82.1	72.1	65.0	60.3	56.1	53.2	52.0
45°	2628.8	1115.6	151.8	89.3	74.5	63.8	57.3	51.4	46.1	43.7	43.1
47.5°	2985.1	1180.0	137.1	80.3	66.2	56.7	49.6	43.1	38.4	36.6	36.0
50°	3203.7	1193.0	127.6	70.3	57.9	49.0	42.0	36.0	33.1	31.3	31.3
52.5°	3303.6	1172.3	114.6	61.5	50.2	43.1	36.0	31.3	29.5	28.3	27.8
55°	3373.3	1140.4	97.5	53.2	43.1	36.6	31.9	28.3	26.0	24.8	24.2
57°	3414.1	1097.3	84.5	46.7	37.2	31.9	28.3	25.4	23.0	20.7	20.7
57.5°	3415.8	1080.7	81.0	46.1	35.5	30.7	27.8	24.8	21.8	19.5	18.9
60°	3363.3	967.2	65.0	39.0	28.3	26.0	23.0	19.5	15.3	13.0	12.4
62.5°	3194.3	823.1	53.8	33.1	23.0	20.1	16.5	14.8	10.6	7.7	7.7
65°	2938.4	667.7	46.1	26.6	18.9	14.8	11.2	10.6	6.5	3.5	3.0
67.5°	2568.6	520.0	39.0	21.8	16.0	10.6	7.7	7.1	3.5	1.2	0.0
70°	1957.0	354.5	32.5	17.7	11.8	7.7	5.3	4.1	2.3	0.6	0.0
72.5°	1128.0	195.0	27.2	13.6	8.8	5.9	4.1	2.3	2.3	0.0	0.0
75°	403.0	83.9	20.7	10.0	7.1	4.7	3.0	1.2	1.8	0.6	0.0
77.5°	128.3	44.9	13.6	7.7	5.9	3.5	2.3	1.2	1.2	0.6	0.0
80°	37.8	23.6	8.3	6.5	4.1	3.0	1.8	0.6	1.2	0.6	0.0
82.5°	20.7	11.8	6.5	4.7	4.1	2.3	1.8	0.6	0.6	0.6	0.0
85°	10.6	7.1	5.3	4.7	4.1	2.3	1.8	0.6	0.0	0.6	0.6
87.5°	5.9	5.3	5.3	4.7	4.1	3.0	1.8	0.6	0.0	0.0	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)