

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: P651253

Luminaire Tested: **GALN-SA2D-840-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651253
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-SA2D-840-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 4000K, 1200mA 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: 10474.7 lumens
Efficiency: N/A
Efficacy: 83.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

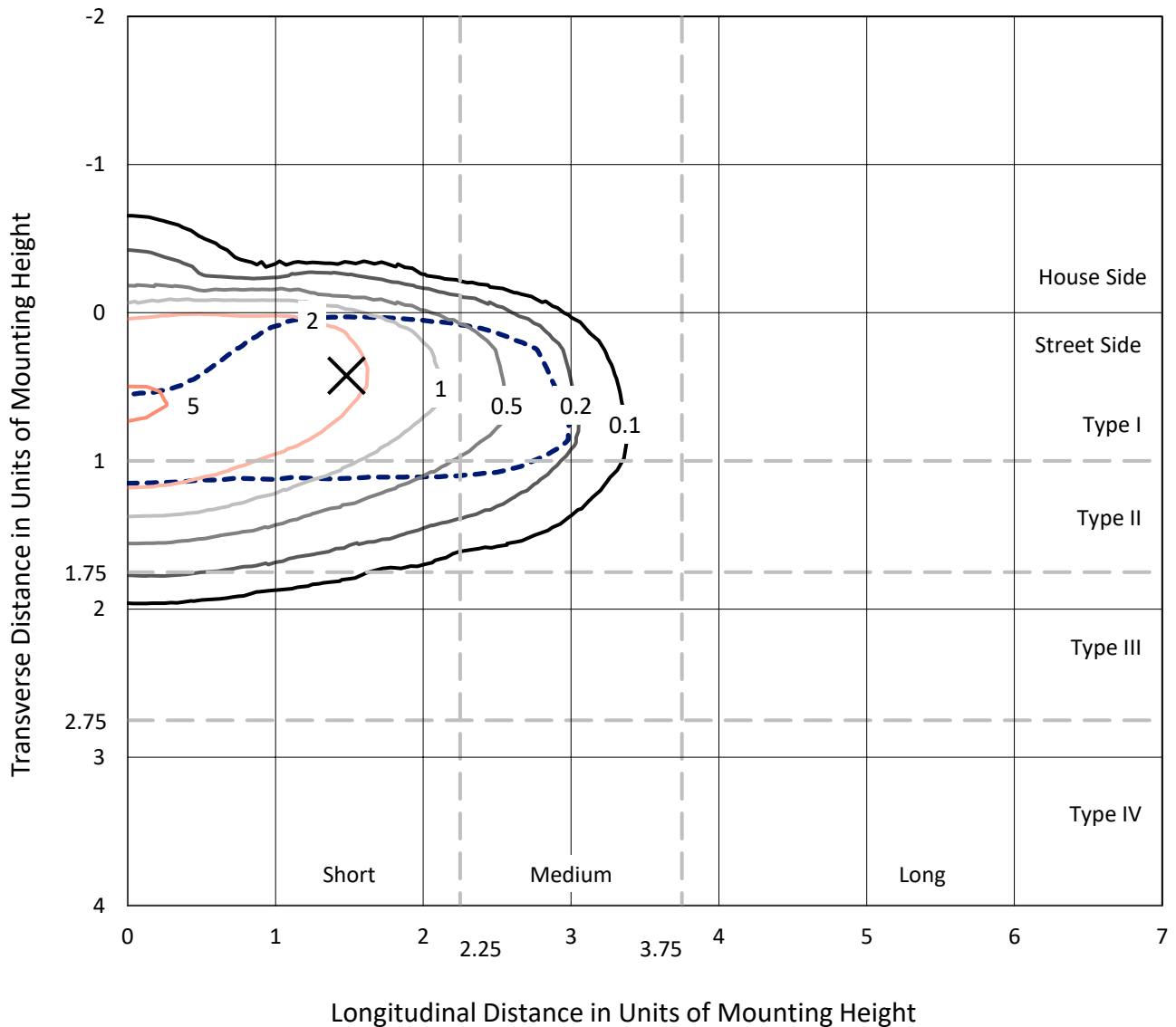
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

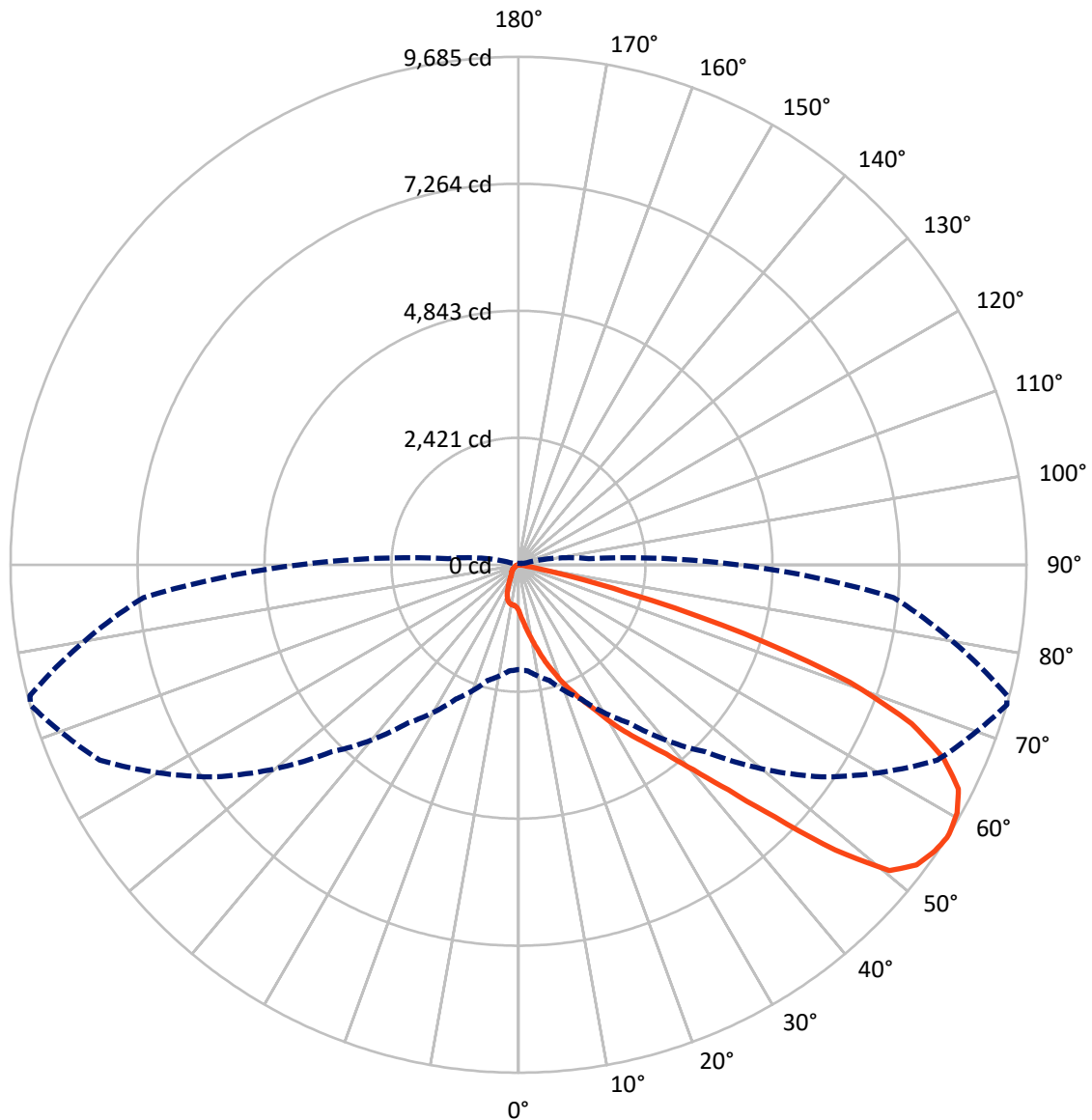
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 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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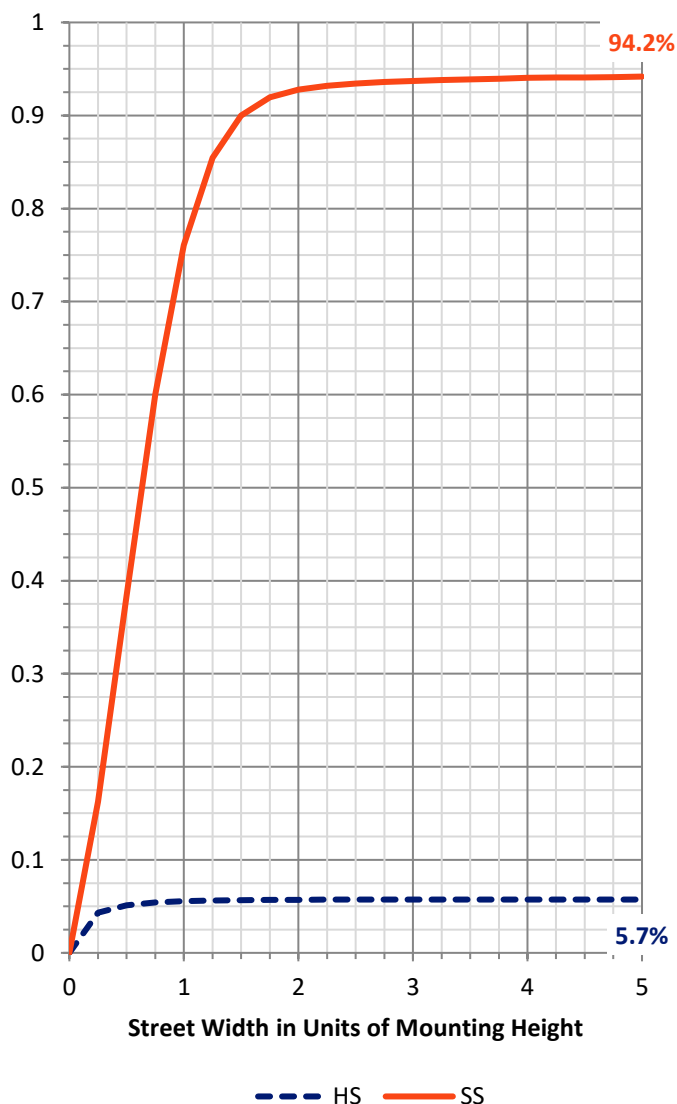
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	604.2	0.0	604.2
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	9870.5	0.0	9870.5
	% Fixture	94.2	0.0	94.2
Total	Lumens	10474.7	0.0	10474.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.9	1.0
10°-20°	417.4	4.0
20°-30°	893.0	8.5
30°-40°	1641.4	15.7
40°-50°	2516.3	24.0
50°-60°	2661.9	25.4
60°-70°	1738.3	16.6
70°-80°	475.0	4.5
80°-90°	25.6	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°	10474.7	100.0
0°-180°	10474.7	100.0

Coefficient of Utilization



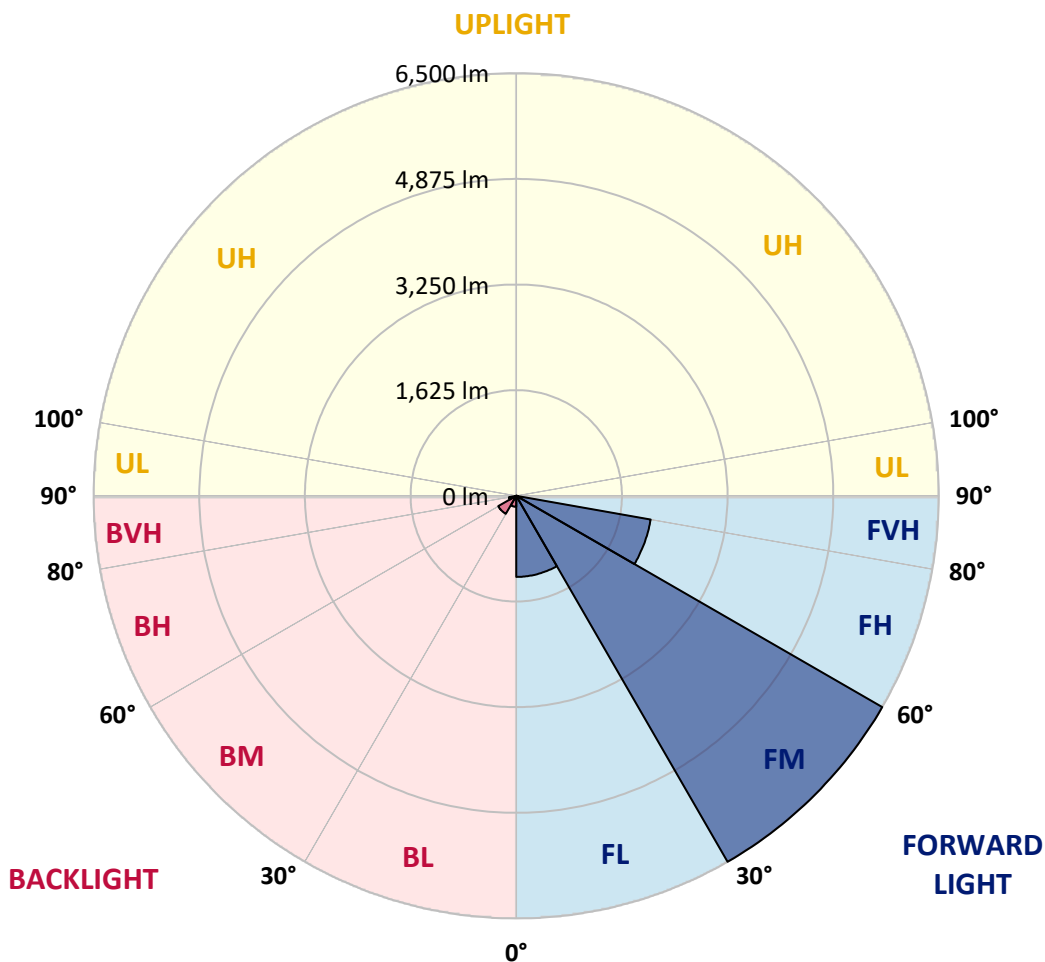
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1247.5	11.9			
FM (30°-60°)	6499.7	62.1			
FH (60°-80°)	2099.8	20.0			G2/5000
FVH (80°-90°)	23.5	0.2			G1/100
BL (0°-30°)	168.8	1.6	B1/500		
BM (30°-60°)	319.8	3.1	B1/1000		
BH (60°-80°)	113.4	1.1	B1/500		G1/500
BVH (80°-90°)	2.1	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-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	74°	75°	85°
0°	877.2	877.2	877.2	877.2	877.2	877.2	877.2	877.2	877.2	877.2	877.2
2.5°	1283.7	1272.1	1249.0	1241.0	1207.0	1154.2	1107.9	1045.8	996.6	991.5	932.2
5°	1719.0	1693.0	1682.2	1630.1	1548.4	1471.7	1340.0	1240.3	1125.3	1116.6	997.3
7.5°	2138.5	2102.3	2091.5	2042.3	1946.8	1826.1	1655.4	1473.9	1291.6	1275.0	1084.8
10°	2442.3	2447.3	2427.8	2395.3	2317.9	2194.9	1984.4	1736.4	1476.8	1455.8	1183.1
12.5°	2659.9	2659.2	2662.8	2662.1	2620.9	2527.5	2306.3	2020.6	1680.7	1639.5	1296.0
15°	2801.7	2803.8	2814.7	2852.3	2856.6	2798.8	2614.3	2292.6	1917.2	1865.8	1418.2
17.5°	2944.8	2960.1	2977.4	3012.9	3044.7	3021.5	2891.4	2576.1	2131.3	2092.9	1549.1
20°	3181.3	3202.4	3192.2	3213.9	3230.5	3232.7	3132.1	2837.8	2390.9	2326.5	1698.8
22.5°	3559.6	3558.9	3532.8	3493.8	3461.2	3459.8	3368.6	3106.8	2626.7	2564.5	1849.2
25°	4037.6	4039.7	3989.2	3877.8	3796.8	3697.7	3592.8	3342.6	2879.1	2802.4	2007.6
27.5°	4585.8	4572.1	4495.4	4342.1	4181.5	4012.3	3861.1	3616.7	3146.6	3083.0	2189.1
30°	5078.3	5073.2	4983.5	4796.2	4585.0	4415.1	4196.0	3960.3	3493.0	3415.0	2392.3
32.5°	5536.8	5544.0	5419.7	5225.8	5021.9	4825.9	4594.5	4288.6	3832.9	3722.3	2613.7
35°	5894.8	5902.1	5773.3	5612.0	5402.2	5239.6	5019.0	4638.6	4168.5	4075.2	2868.2
37.5°	6085.7	6095.1	6020.6	5899.1	5768.3	5686.5	5481.1	5089.1	4576.4	4520.0	3169.1
40°	6121.9	6132.7	6100.2	6067.6	6060.4	6118.9	6059.0	5620.0	5142.0	5053.7	3617.4
42.5°	6013.4	6027.9	6042.3	6114.7	6262.2	6477.0	6686.0	6340.3	5870.2	5751.6	4165.6
45°	5728.5	5727.0	5784.1	5971.4	6301.9	6760.5	7341.2	7242.1	6862.4	6721.4	4940.2
47.5°	5241.0	5233.8	5357.4	5624.3	6139.2	6812.5	7875.6	8337.0	8128.8	7998.6	5772.5
50°	4498.3	4533.7	4728.3	5100.7	5734.9	6654.8	8040.5	9055.1	9168.0	9029.8	6445.2
52.5°	3628.2	3626.8	3932.0	4437.5	5136.2	6307.8	7925.5	9185.3	9505.7	9400.1	6776.4
55°	2685.2	2704.1	3021.5	3531.4	4358.7	5674.2	7550.2	9051.5	9634.4	9560.0	6994.8
57°	1997.5	2030.8	2285.3	2824.8	3681.8	5047.2	7050.4	8812.2	9685.0	9644.6	7176.3
57.5°	1864.4	1865.8	2113.9	2604.2	3483.7	4806.4	6907.3	8712.3	9683.6	9661.2	7205.9
60°	1147.7	1183.9	1355.3	1760.3	2550.0	3751.2	5947.6	8138.9	9608.4	9641.0	7332.5
62.5°	687.0	702.2	813.6	1060.9	1643.8	2738.0	4867.1	7404.8	9412.4	9511.5	7323.8
65°	441.9	445.5	496.1	642.2	1027.7	1850.7	3750.5	6435.0	8905.4	9087.7	7037.4
67.5°	341.4	347.2	367.3	421.6	595.9	1152.8	2652.7	5400.1	8085.4	8320.3	6343.2
70°	303.0	305.9	313.1	330.5	394.2	650.8	1650.4	4218.4	6704.8	6771.3	4964.0
72.5°	247.3	255.3	277.7	283.5	312.4	406.5	918.5	2831.3	4504.8	4521.5	2777.1
75°	191.7	193.1	226.4	243.0	263.2	279.9	410.1	1427.6	2163.8	2048.1	1070.3
77.5°	143.2	149.7	164.9	185.9	214.8	200.3	183.7	538.1	671.9	659.6	311.0
80°	91.8	95.5	115.0	139.6	167.0	130.9	103.4	157.7	147.5	151.9	74.5
82.5°	46.3	47.0	73.8	113.5	106.3	65.9	65.1	64.3	55.0	54.2	34.7
85°	5.0	10.8	47.8	65.1	47.8	21.7	30.4	29.7	28.9	29.7	20.3
87.5°	0.8	0.8	8.0	9.4	6.5	7.2	8.7	9.4	11.6	10.8	8.7
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°	877.2	877.2	877.2	877.2	877.2	877.2	877.2	877.2	877.2	877.2	877.2
2.5°	903.2	874.4	820.8	769.5	731.2	706.5	674.7	663.2	646.6	644.4	636.4
5°	942.3	887.3	794.1	720.3	661.0	616.2	577.1	544.5	518.6	512.8	515.6
7.5°	998.0	916.3	786.1	685.6	603.2	526.5	464.3	426.0	398.5	388.4	389.8
10°	1060.9	954.6	784.7	648.7	522.8	428.8	360.9	326.9	311.0	305.2	298.6
12.5°	1135.4	998.8	781.0	591.6	434.6	342.0	293.6	273.4	258.2	253.8	253.8
15°	1219.3	1045.8	763.7	520.7	352.9	282.7	250.2	234.3	229.3	224.9	224.9
17.5°	1306.8	1092.0	727.5	433.2	292.9	242.3	222.0	212.6	205.4	200.3	200.3
20°	1406.7	1137.6	669.7	355.8	247.3	216.2	200.3	189.5	183.7	179.4	177.9
22.5°	1501.4	1174.5	595.9	292.2	215.5	194.5	180.1	168.5	162.7	160.5	160.5
25°	1599.8	1196.9	507.0	241.5	196.7	176.4	160.5	151.1	146.1	144.7	143.9
27.5°	1695.2	1209.9	428.8	211.2	179.4	159.8	144.7	137.4	132.4	130.9	131.6
30°	1810.9	1212.0	352.9	189.5	164.2	143.9	130.2	123.6	120.8	119.3	118.6
32.5°	1928.1	1209.2	296.5	176.4	149.7	130.2	118.6	113.5	111.3	109.2	109.2
35°	2059.7	1194.0	252.4	163.4	136.0	118.6	108.5	104.1	101.3	99.1	98.3
37.5°	2223.1	1186.1	227.1	148.9	123.6	107.7	98.3	94.0	91.8	89.0	88.2
40°	2480.5	1221.5	219.2	136.0	111.3	97.6	89.0	83.9	81.0	78.1	77.4
42.5°	2801.7	1283.7	206.1	123.0	100.5	88.2	79.6	73.8	68.7	65.1	63.7
45°	3217.5	1365.4	185.9	109.2	91.2	78.1	70.1	62.9	56.4	53.5	52.8
47.5°	3653.6	1444.2	167.8	98.3	81.0	69.5	60.7	52.8	47.0	44.8	44.2
50°	3921.2	1460.1	156.2	86.0	70.9	60.0	51.4	44.2	40.5	38.3	38.3
52.5°	4043.4	1434.8	140.3	75.2	61.5	52.8	44.2	38.3	36.2	34.7	34.0
55°	4128.7	1395.8	119.3	65.1	52.8	44.8	39.0	34.7	31.8	30.4	29.7
57°	4178.7	1343.0	103.4	57.1	45.6	39.0	34.7	31.1	28.2	25.3	25.3
57.5°	4180.8	1322.7	99.1	56.4	43.4	37.6	34.0	30.4	26.7	23.9	23.1
60°	4116.4	1183.9	79.6	47.8	34.7	31.8	28.2	23.9	18.8	15.9	15.2
62.5°	3909.6	1007.4	65.9	40.5	28.2	24.6	20.3	18.1	13.0	9.4	9.4
65°	3596.5	817.2	56.4	32.5	23.1	18.1	13.7	13.0	8.0	4.4	3.6
67.5°	3143.7	636.4	47.8	26.7	19.5	13.0	9.4	8.7	4.4	1.4	0.0
70°	2395.3	434.0	39.8	21.7	14.5	9.4	6.5	5.0	2.9	0.8	0.0
72.5°	1380.6	238.7	33.3	16.7	10.8	7.2	5.0	2.9	2.9	0.0	0.0
75°	493.2	102.7	25.3	12.3	8.7	5.8	3.6	1.4	2.2	0.8	0.0
77.5°	156.9	55.0	16.7	9.4	7.2	4.4	2.9	1.4	1.4	0.8	0.0
80°	46.3	28.9	10.1	8.0	5.0	3.6	2.2	0.8	1.4	0.8	0.0
82.5°	25.3	14.5	8.0	5.8	5.0	2.9	2.2	0.8	0.8	0.8	0.0
85°	13.0	8.7	6.5	5.8	5.0	2.9	2.2	0.8	0.0	0.8	0.8
87.5°	7.2	6.5	6.5	5.8	5.0	3.6	2.2	0.8	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)