

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: P452297

Luminaire Tested: **GALN-SA3B-727-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452297
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-SA3B-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 2700K, 800mA 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: 11374 lumens
Efficiency: N/A
Efficacy: 94.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

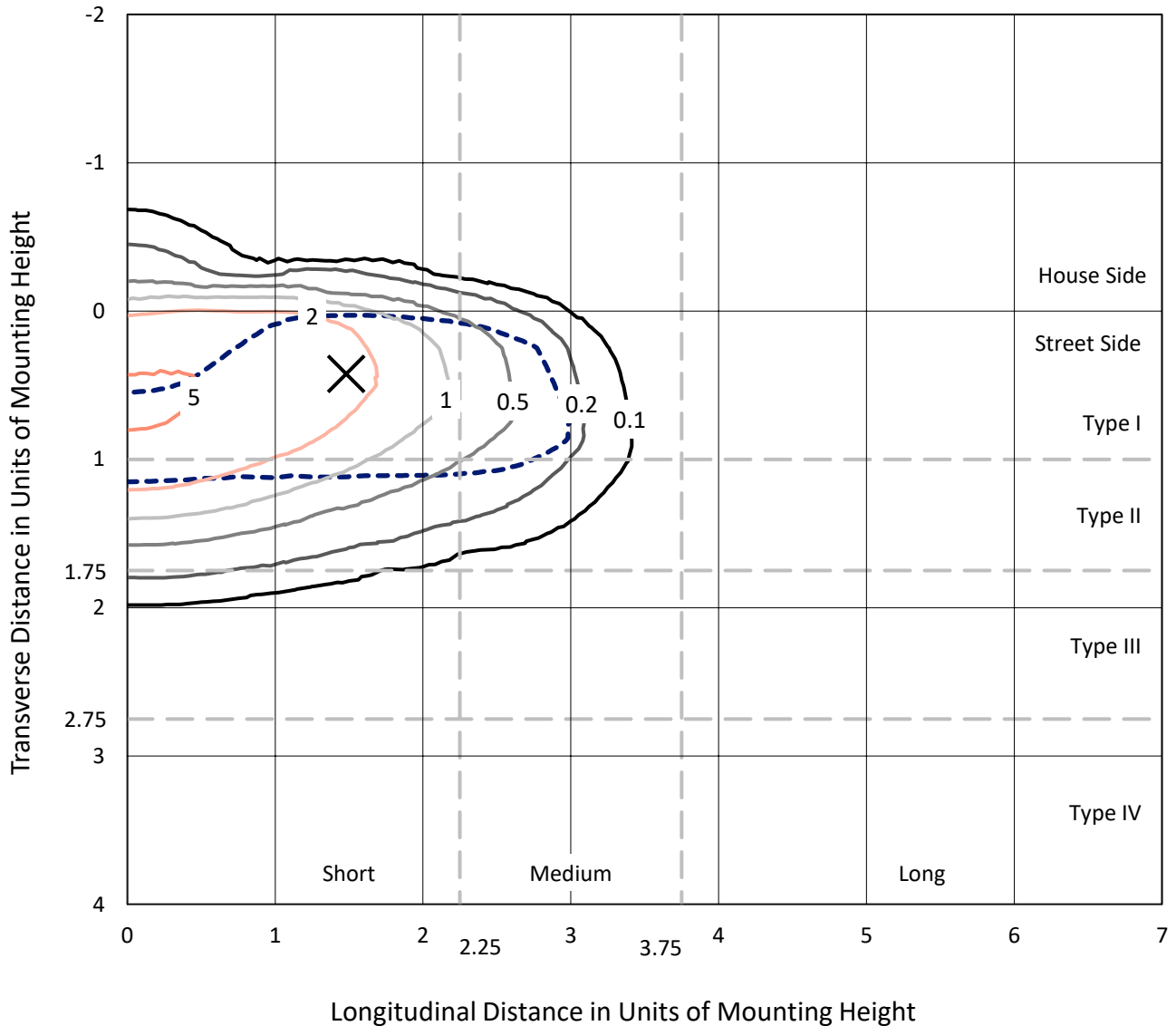
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

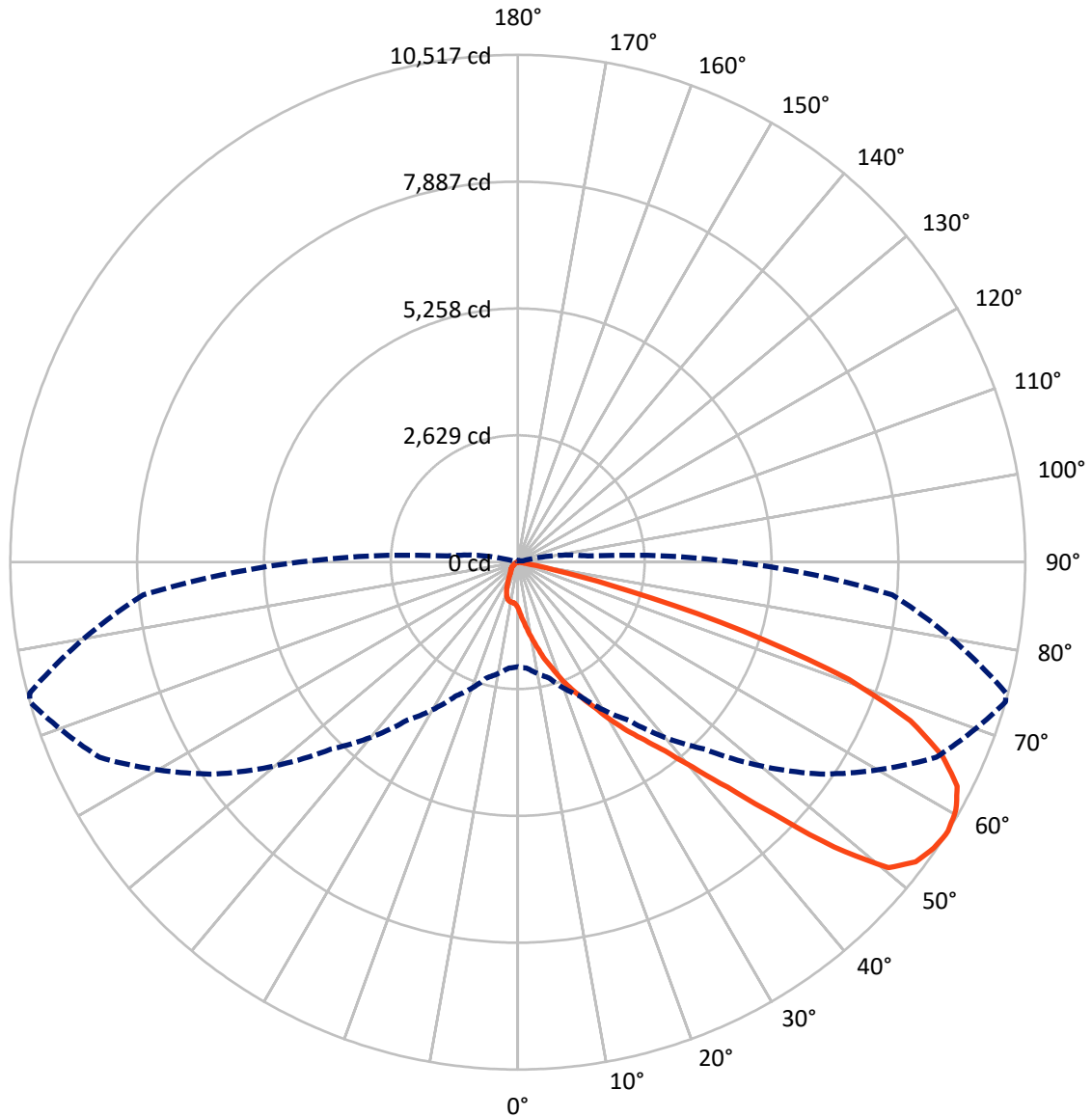
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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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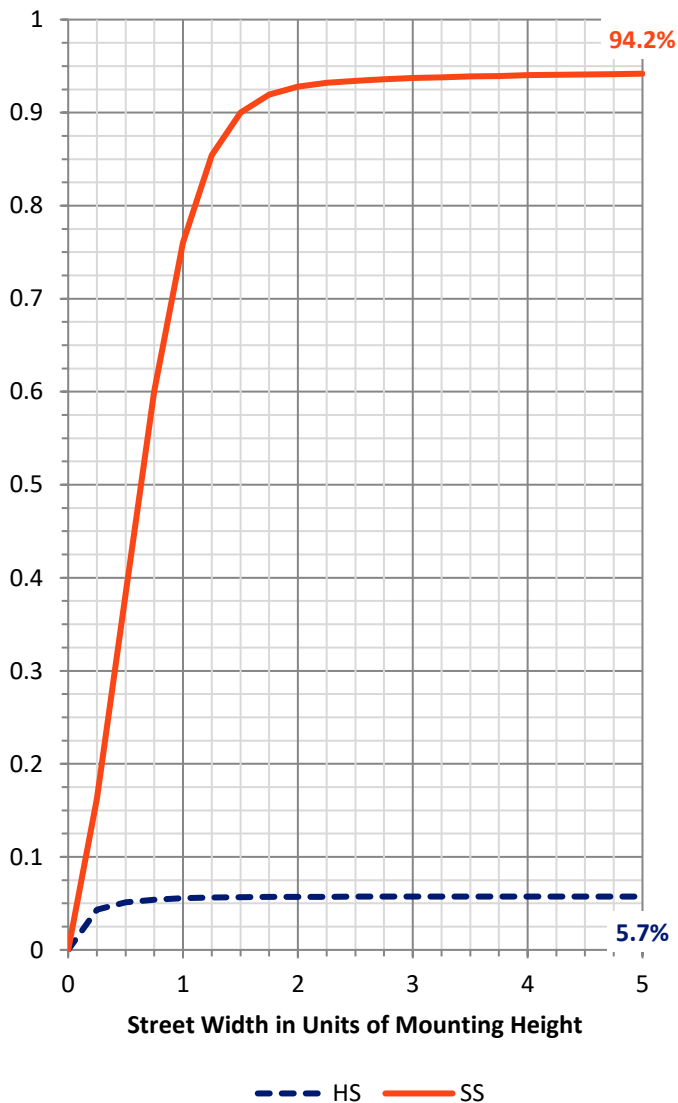
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	656.0	0.0	656.0
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	10718.0	0.0	10718.0
	% Fixture	94.2	0.0	94.2
Total	Lumens	11374.0	0.0	11374.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.0	1.0
10°-20°	453.2	4.0
20°-30°	969.7	8.5
30°-40°	1782.3	15.7
40°-50°	2732.3	24.0
50°-60°	2890.4	25.4
60°-70°	1887.5	16.6
70°-80°	515.7	4.5
80°-90°	27.8	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°	11374.0	100.0
0°-180°	11374.0	100.0

Coefficient of Utilization



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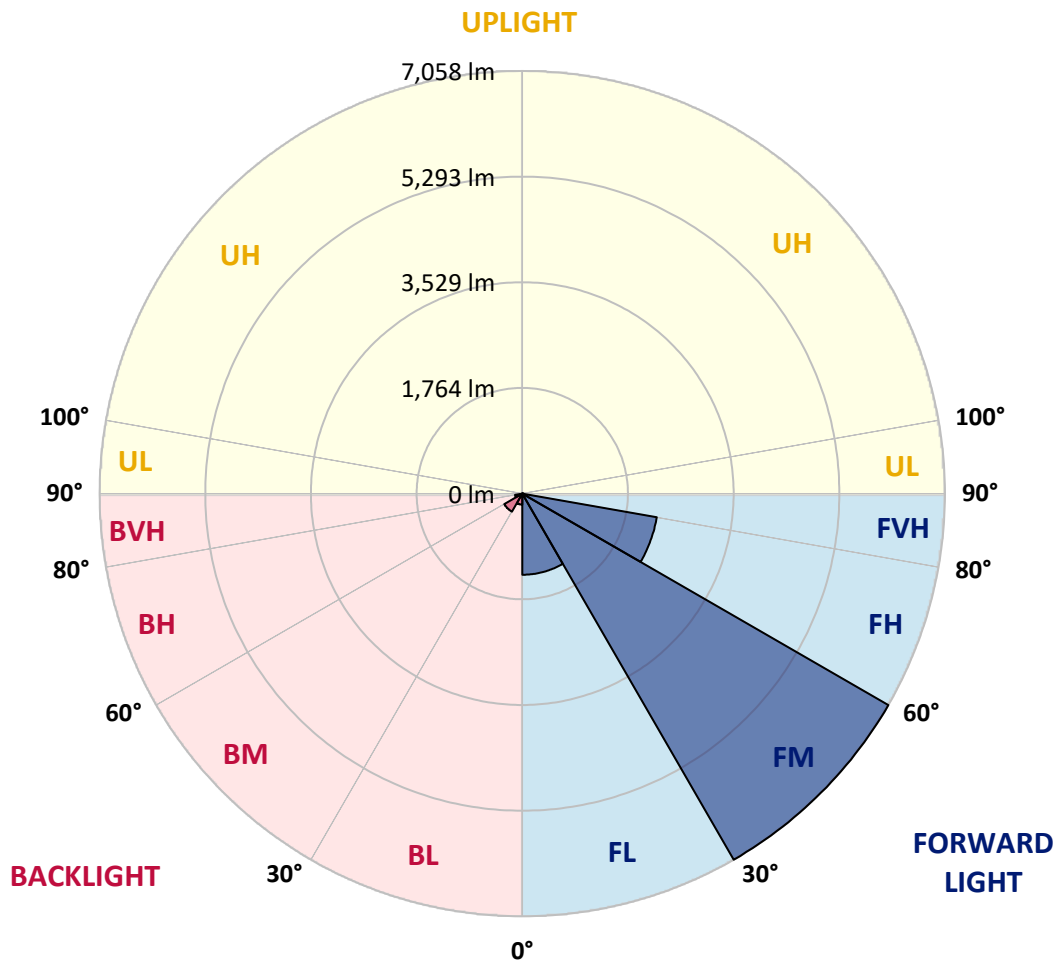
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1354.6	11.9			
FM (30°-60°)	7057.8	62.1			
FH (60°-80°)	2280.1	20.0			G2/5000
FVH (80°-90°)	25.5	0.2			G1/100
BL (0°-30°)	183.2	1.6	B1/500		
BM (30°-60°)	347.3	3.1	B1/1000		
BH (60°-80°)	123.2	1.1	B1/500		G1/500
BVH (80°-90°)	2.3	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°	952.6	952.6	952.6	952.6	952.6	952.6	952.6	952.6	952.6	952.6	952.6
2.5°	1393.9	1381.3	1356.2	1347.6	1310.7	1253.3	1203.1	1135.5	1082.1	1076.6	1012.2
5°	1866.6	1838.4	1826.6	1770.0	1681.3	1598.1	1455.1	1346.8	1221.9	1212.5	1082.9
7.5°	2322.1	2282.8	2271.1	2217.7	2114.0	1982.9	1797.5	1600.4	1402.5	1384.5	1177.9
10°	2651.9	2657.4	2636.2	2600.9	2516.9	2383.4	2154.8	1885.5	1603.6	1580.8	1284.7
12.5°	2888.3	2887.5	2891.4	2890.7	2845.9	2744.6	2504.3	2194.1	1825.0	1780.3	1407.2
15°	3042.2	3044.6	3056.4	3097.2	3101.9	3039.1	2838.8	2489.4	2081.8	2026.1	1540.0
17.5°	3197.7	3214.2	3233.0	3271.5	3306.1	3280.9	3139.6	2797.2	2314.3	2272.6	1682.1
20°	3454.5	3477.3	3466.3	3489.8	3507.9	3510.2	3401.1	3081.5	2596.2	2526.3	1844.6
22.5°	3865.2	3864.4	3836.1	3793.7	3758.4	3756.8	3657.9	3373.6	2852.2	2784.6	2008.0
25°	4384.3	4386.6	4331.7	4210.7	4122.8	4015.2	3901.3	3629.6	3126.2	3043.0	2180.0
27.5°	4979.5	4964.6	4881.4	4714.9	4540.6	4356.8	4192.7	3927.2	3416.8	3347.7	2377.1
30°	5514.3	5508.8	5411.4	5208.0	4978.7	4794.2	4556.3	4300.3	3793.0	3708.1	2597.7
32.5°	6012.2	6020.0	5885.0	5674.5	5453.1	5240.2	4989.0	4656.8	4162.0	4041.9	2838.0
35°	6400.9	6408.8	6269.0	6093.9	5866.1	5689.4	5449.9	5036.9	4526.4	4425.1	3114.5
37.5°	6608.2	6618.4	6537.5	6405.6	6263.5	6174.7	5951.7	5526.1	4969.3	4908.1	3441.1
40°	6647.5	6659.3	6623.9	6588.6	6580.7	6644.3	6579.2	6102.5	5583.4	5487.6	3928.0
42.5°	6529.7	6545.4	6561.1	6639.6	6799.8	7033.1	7260.0	6884.6	6374.2	6245.4	4523.3
45°	6220.3	6218.7	6280.8	6484.1	6843.0	7340.9	7971.5	7863.9	7451.6	7298.5	5364.3
47.5°	5691.0	5683.1	5817.4	6107.2	6666.3	7397.4	8551.8	9052.8	8826.7	8685.3	6268.2
50°	4884.5	4923.0	5134.2	5538.7	6227.4	7226.2	8730.9	9832.6	9955.1	9805.1	6998.5
52.5°	3939.8	3938.2	4269.6	4818.5	5577.1	6849.3	8606.0	9974.0	10321.9	10207.2	7358.2
55°	2915.8	2936.2	3280.9	3834.6	4732.9	6161.4	8198.4	9828.7	10461.6	10380.8	7595.3
57°	2169.0	2205.1	2481.5	3067.3	3997.9	5480.5	7655.8	9568.8	10516.6	10472.6	7792.4
57.5°	2024.5	2026.1	2295.4	2827.8	3782.7	5219.0	7500.3	9460.4	10515.0	10490.7	7824.6
60°	1246.3	1285.5	1471.6	1911.4	2768.9	4073.3	6458.2	8837.7	10433.4	10468.7	7962.1
62.5°	746.0	762.5	883.5	1152.0	1785.0	2973.1	5285.0	8040.6	10220.6	10328.1	7952.6
65°	479.8	483.7	538.7	697.3	1115.9	2009.6	4072.5	6987.5	9670.1	9868.0	7641.7
67.5°	370.7	376.9	398.9	457.8	647.1	1251.8	2880.4	5863.8	8779.6	9034.8	6887.8
70°	329.0	332.2	340.0	358.9	428.0	706.8	1792.0	4580.6	7280.4	7352.7	5390.2
72.5°	268.6	277.2	301.6	307.8	339.2	441.3	997.3	3074.4	4891.6	4909.6	3015.5
75°	208.1	209.7	245.8	263.9	285.8	303.9	445.3	1550.2	2349.6	2223.9	1162.2
77.5°	155.5	162.6	179.0	201.8	233.2	217.5	199.5	584.3	729.5	716.2	337.7
80°	99.7	103.7	124.9	151.6	181.4	142.1	112.3	171.2	160.2	164.9	80.9
82.5°	50.3	51.0	80.1	123.3	115.4	71.5	70.7	69.9	59.7	58.9	37.7
85°	5.5	11.8	51.8	70.7	51.8	23.6	33.0	32.2	31.4	32.2	22.0
87.5°	0.8	0.8	8.6	10.2	7.1	7.9	9.4	10.2	12.6	11.8	9.4
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°	952.6	952.6	952.6	952.6	952.6	952.6	952.6	952.6	952.6	952.6	952.6
2.5°	980.8	949.4	891.3	835.5	793.9	767.2	732.7	720.1	702.0	699.7	691.1
5°	1023.2	963.6	862.2	782.1	717.8	669.1	626.7	591.3	563.1	556.8	559.9
7.5°	1083.7	995.0	853.6	744.5	654.9	571.7	504.2	462.5	432.7	421.7	423.3
10°	1152.0	1036.6	852.0	704.4	567.8	465.7	391.9	355.0	337.7	331.4	324.3
12.5°	1232.9	1084.5	848.1	642.4	472.0	371.4	318.8	296.8	280.3	275.6	275.6
15°	1324.0	1135.5	829.3	565.4	383.2	307.0	271.7	254.4	248.9	244.2	244.2
17.5°	1419.0	1185.8	790.0	470.4	318.0	263.1	241.1	230.9	223.0	217.5	217.5
20°	1527.4	1235.3	727.2	386.4	268.6	234.8	217.5	205.7	199.5	194.8	193.2
22.5°	1630.3	1275.3	647.1	317.3	234.0	211.2	195.5	183.0	176.7	174.3	174.3
25°	1737.1	1299.7	550.5	262.3	213.6	191.6	174.3	164.1	158.6	157.1	156.3
27.5°	1840.7	1313.8	465.7	229.3	194.8	173.5	157.1	149.2	143.7	142.1	142.9
30°	1966.4	1316.1	383.2	205.7	178.3	156.3	141.4	134.3	131.1	129.6	128.8
32.5°	2093.6	1313.0	322.0	191.6	162.6	141.4	128.8	123.3	120.9	118.6	118.6
35°	2236.5	1296.5	274.1	177.5	147.6	128.8	117.8	113.1	109.9	107.6	106.8
37.5°	2414.0	1287.9	246.6	161.8	134.3	117.0	106.8	102.1	99.7	96.6	95.8
40°	2693.5	1326.4	237.9	147.6	120.9	106.0	96.6	91.1	88.0	84.8	84.0
42.5°	3042.2	1393.9	223.8	133.5	109.2	95.8	86.4	80.1	74.6	70.7	69.1
45°	3493.8	1482.6	201.8	118.6	98.9	84.8	76.2	68.3	61.3	58.1	57.3
47.5°	3967.3	1568.2	182.2	106.8	88.0	75.4	66.0	57.3	51.0	48.7	47.9
50°	4257.8	1585.5	169.6	93.4	77.0	65.2	55.8	47.9	44.0	41.6	41.6
52.5°	4390.6	1558.0	152.3	81.7	66.7	57.3	47.9	41.6	39.3	37.7	36.9
55°	4483.2	1515.6	129.6	70.7	57.3	48.7	42.4	37.7	34.6	33.0	32.2
57°	4537.4	1458.3	112.3	62.0	49.5	42.4	37.7	33.8	30.6	27.5	27.5
57.5°	4539.8	1436.3	107.6	61.3	47.1	40.8	36.9	33.0	29.1	25.9	25.1
60°	4469.9	1285.5	86.4	51.8	37.7	34.6	30.6	25.9	20.4	17.3	16.5
62.5°	4245.3	1093.9	71.5	44.0	30.6	26.7	22.0	19.6	14.1	10.2	10.2
65°	3905.3	887.4	61.3	35.3	25.1	19.6	14.9	14.1	8.6	4.7	3.9
67.5°	3413.7	691.1	51.8	29.1	21.2	14.1	10.2	9.4	4.7	1.6	0.0
70°	2600.9	471.2	43.2	23.6	15.7	10.2	7.1	5.5	3.1	0.8	0.0
72.5°	1499.1	259.1	36.1	18.1	11.8	7.9	5.5	3.1	3.1	0.0	0.0
75°	535.6	111.5	27.5	13.3	9.4	6.3	3.9	1.6	2.4	0.8	0.0
77.5°	170.4	59.7	18.1	10.2	7.9	4.7	3.1	1.6	1.6	0.8	0.0
80°	50.3	31.4	11.0	8.6	5.5	3.9	2.4	0.8	1.6	0.8	0.0
82.5°	27.5	15.7	8.6	6.3	5.5	3.1	2.4	0.8	0.8	0.8	0.0
85°	14.1	9.4	7.1	6.3	5.5	3.1	2.4	0.8	0.0	0.8	0.8
87.5°	7.9	7.1	7.1	6.3	5.5	3.9	2.4	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)