

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: P451371

Luminaire Tested: **GALN-SA2B-727-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451371  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA2B-727-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7026 lumens  
Efficiency: N/A  
Efficacy: 85.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B1 - U0 - G2

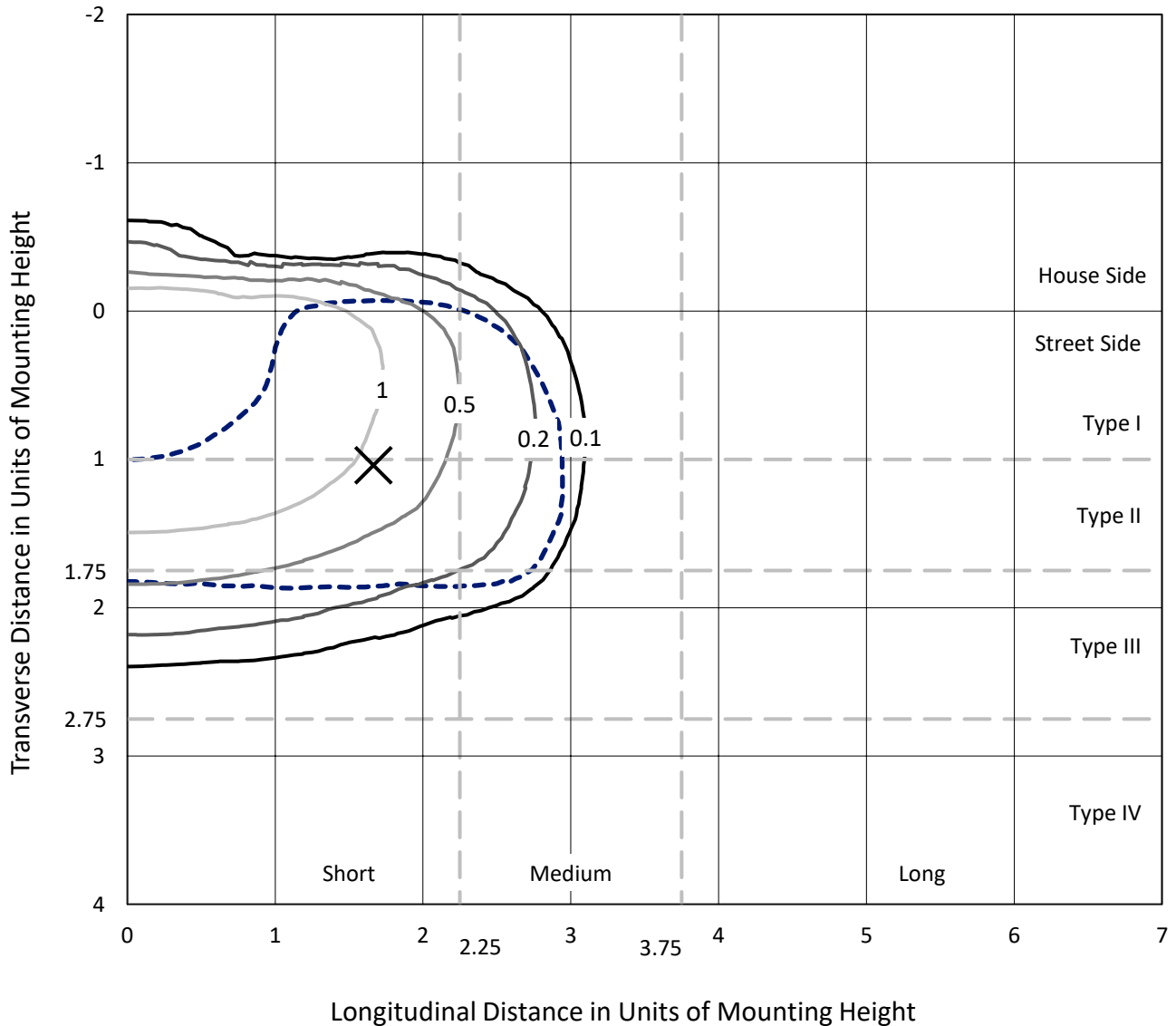
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

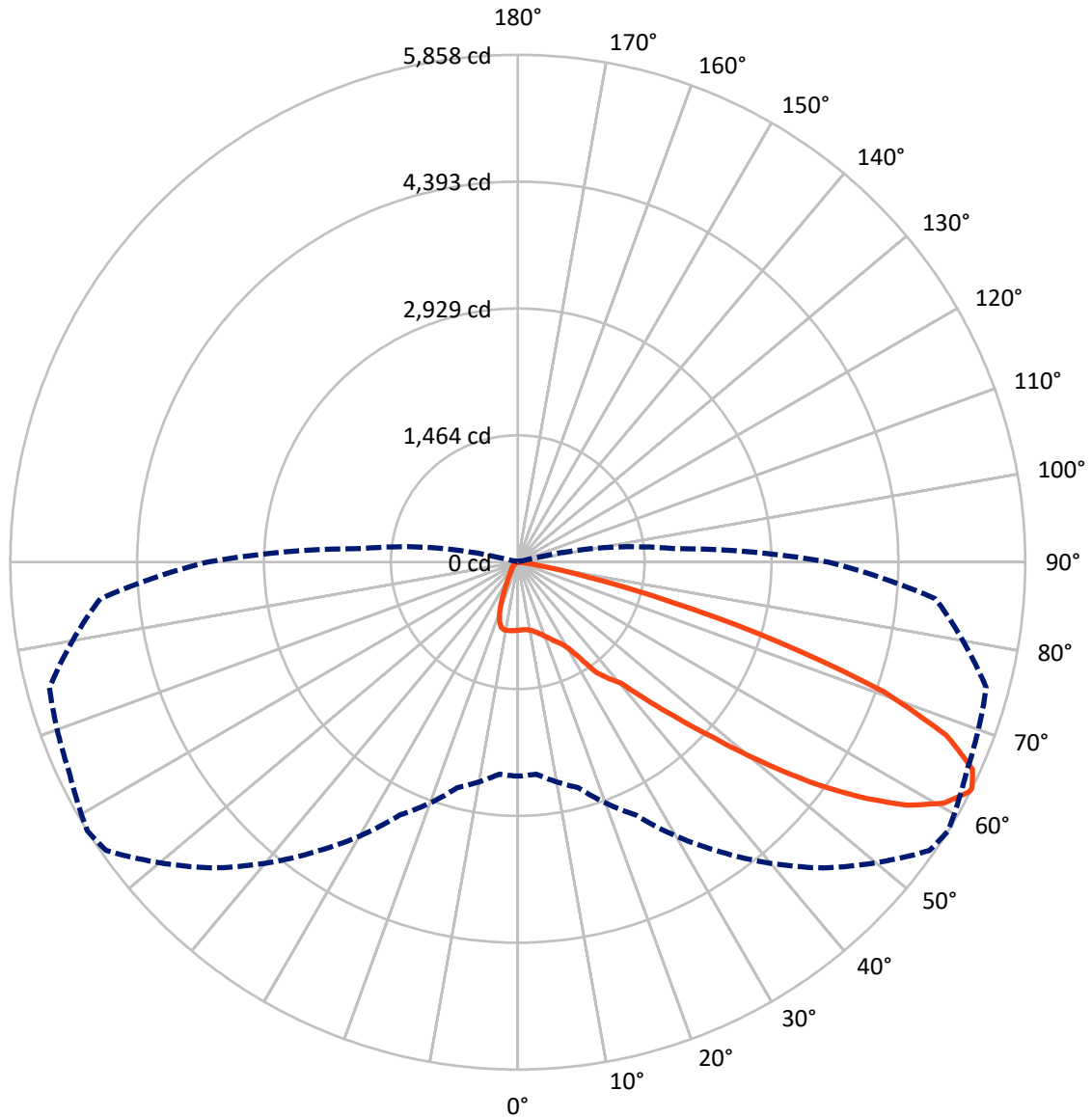
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.7 fc  
 Type III - Short - N/A

REPORT NUMBER: P451371  
CATALOG NUMBER: GALN-SA2B-727-U-T3-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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CATALOG NUMBER: GALN-SA2B-727-U-T3-HSS

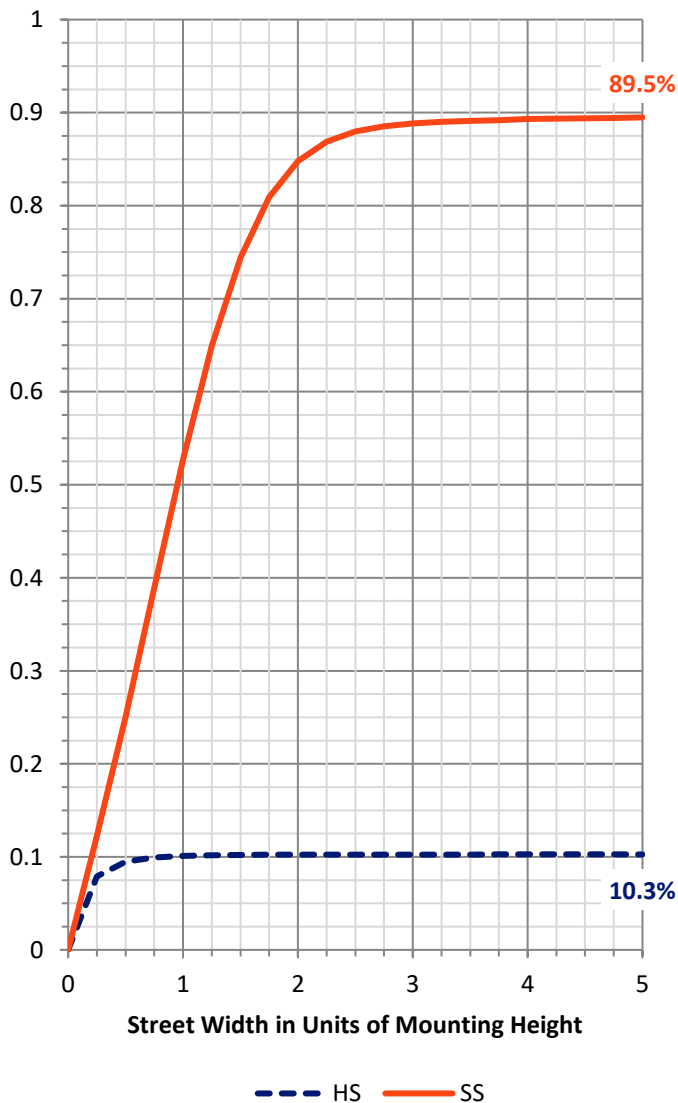
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	727.5	0.0	727.5
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	6298.5	0.0	6298.5
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	7026.0	0.0	7026.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.6	1.0
10°-20°	200.6	2.9
20°-30°	348.1	5.0
30°-40°	639.6	9.1
40°-50°	1204.1	17.1
50°-60°	2059.5	29.3
60°-70°	1972.0	28.1
70°-80°	502.9	7.2
80°-90°	25.7	0.4
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°	7026.0	100.0
0°-180°	7026.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P451371

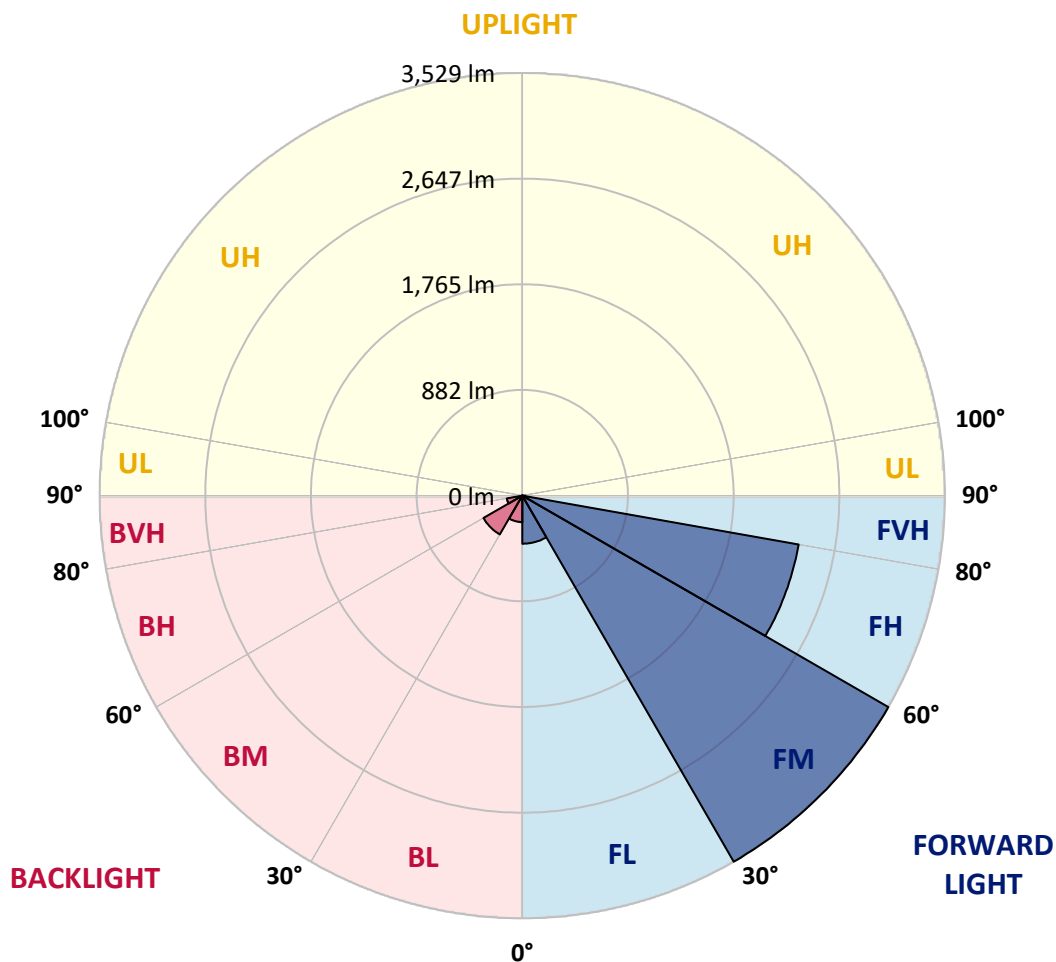
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	401.6	5.7			
FM	(30°-60°)	3529.0	50.2			
FH	(60°-80°)	2343.1	33.3			G2/5000
FVH	(80°-90°)	24.7	0.4			G1/100
BL	(0°-30°)	220.6	3.1	B1/500		
BM	(30°-60°)	374.2	5.3	B1/1000		
BH	(60°-80°)	131.7	1.9	B1/500		G1/500
BVH	(80°-90°)	1.0	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6
2.5°	767.0	769.7	772.3	773.4	777.1	780.8	783.4	782.9	787.1	789.2	789.2
5°	736.3	736.3	743.2	749.6	760.1	770.7	780.8	782.9	790.8	798.2	800.9
7.5°	710.4	712.0	717.3	728.9	743.2	761.7	781.8	786.6	800.3	816.7	823.6
10°	698.2	699.3	706.2	718.3	736.3	761.7	789.8	798.8	819.9	845.8	855.4
12.5°	695.6	697.2	704.1	717.8	738.5	769.1	807.2	816.7	847.4	880.7	895.0
15°	700.4	701.4	708.3	723.1	745.9	782.4	830.5	843.7	880.2	918.8	937.3
17.5°	717.3	716.2	721.0	733.2	758.6	798.8	858.5	874.4	917.2	970.1	982.3
20°	789.2	782.4	778.1	767.5	777.6	822.0	892.4	915.7	968.6	1022.5	1031.0
22.5°	944.2	928.9	898.7	857.5	825.7	853.8	933.1	960.1	1028.3	1081.2	1081.2
25°	1141.5	1122.0	1091.8	1001.9	924.1	906.1	979.1	1013.0	1093.4	1146.8	1129.4
27.5°	1388.6	1373.2	1314.5	1209.8	1090.7	997.6	1032.6	1063.8	1151.1	1215.6	1179.1
30°	1589.6	1582.2	1534.0	1440.4	1309.2	1173.3	1132.0	1152.6	1227.8	1302.3	1264.8
32.5°	1759.4	1759.4	1710.2	1622.9	1500.2	1379.6	1300.8	1315.6	1387.5	1473.7	1403.9
35°	1946.1	1939.8	1900.1	1817.0	1679.5	1573.2	1540.9	1561.0	1626.1	1690.1	1518.2
37.5°	2142.4	2140.2	2099.0	2018.6	1906.4	1772.6	1697.0	1702.2	1735.6	1774.7	1652.0
40°	2355.5	2358.7	2304.8	2255.0	2149.2	2012.2	1867.3	1834.0	1865.2	1975.7	1899.0
42.5°	2607.3	2599.9	2576.6	2508.9	2423.8	2341.8	2167.7	2155.6	2183.1	2301.6	2218.5
45°	2899.8	2910.4	2870.2	2832.7	2775.5	2707.3	2561.8	2540.7	2570.8	2754.9	2636.9
47.5°	3192.9	3182.9	3208.8	3201.9	3232.6	3181.8	3053.3	3009.9	3082.3	3256.9	3083.4
50°	3416.1	3427.2	3481.2	3560.0	3691.7	3720.3	3597.0	3582.2	3614.5	3726.6	3482.8
52.5°	3561.1	3598.1	3682.7	3885.3	4122.8	4307.5	4213.8	4205.9	4192.7	4222.8	3864.7
55°	3655.8	3693.3	3803.9	4102.2	4511.1	4811.0	4815.8	4781.9	4694.7	4673.0	4221.8
57.5°	3597.6	3605.0	3762.6	4161.5	4726.4	5170.2	5325.7	5291.9	5130.5	5048.6	4537.0
60°	3233.6	3249.0	3468.5	3937.2	4632.8	5287.6	5663.8	5648.4	5471.7	5379.2	4782.5
62.5°	2588.8	2633.2	2859.1	3381.7	4197.4	5089.8	5800.8	5844.1	5706.6	5579.1	4859.7
63°	2470.3	2456.0	2694.6	3219.9	4082.1	4992.0	5802.9	5857.9	5717.2	5598.2	4838.5
65°	1828.7	1871.5	2026.5	2539.1	3397.1	4536.5	5672.2	5769.5	5678.0	5514.0	4604.2
67.5°	1026.7	1024.6	1196.0	1661.5	2377.7	3558.4	5129.0	5334.7	5315.7	4948.0	3816.6
70°	502.5	510.5	580.8	861.2	1379.0	2455.0	4262.0	4484.1	4491.0	3886.4	2639.1
72.5°	227.5	231.2	281.4	419.5	708.8	1307.1	2936.9	3149.0	3109.9	2476.7	1457.3
75°	120.1	128.0	155.0	211.1	341.7	539.0	1597.5	1802.8	1720.8	1131.5	536.4
77.5°	88.9	91.5	105.3	134.4	183.0	210.0	689.3	819.9	768.1	409.4	177.7
80°	65.1	67.2	78.3	95.2	115.3	106.9	259.7	297.8	267.1	139.1	54.5
82.5°	39.7	40.2	57.1	70.9	72.5	59.8	85.7	92.0	96.3	78.3	29.6
85°	14.3	18.0	38.6	51.3	42.8	30.2	36.0	39.7	43.4	49.7	17.5
87.5°	1.6	2.1	18.5	24.9	12.2	11.1	13.2	14.8	15.9	18.5	8.5
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°	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6	786.6
2.5°	791.3	793.5	791.9	789.2	788.7	787.1	783.9	783.9	783.9	785.0	783.9
5°	803.0	804.6	800.9	795.6	789.8	782.4	774.4	769.7	769.1	768.1	765.4
7.5°	825.2	827.3	818.9	806.2	790.3	772.3	755.4	739.5	732.1	726.3	726.3
10°	857.5	859.6	842.7	819.9	788.2	751.7	711.5	675.0	646.4	633.2	630.0
12.5°	896.1	897.1	869.1	829.4	777.1	706.7	621.0	541.1	485.6	460.2	457.6
15°	938.4	931.0	894.0	833.1	745.3	614.1	466.0	368.2	310.5	293.6	299.9
17.5°	981.3	967.5	913.0	827.3	673.9	466.0	313.2	251.3	233.3	228.5	228.5
20°	1021.5	1002.4	926.8	801.9	550.1	321.1	232.2	217.4	214.2	211.1	211.6
22.5°	1061.7	1032.6	938.9	745.3	410.0	229.6	207.9	203.1	198.9	194.7	194.1
25°	1100.8	1060.6	943.7	640.6	279.3	197.3	189.9	183.6	175.1	170.3	169.3
27.5°	1141.5	1094.5	940.5	508.3	203.7	176.7	169.3	160.3	150.2	141.8	141.8
30°	1219.8	1159.0	929.4	365.5	171.4	155.5	146.0	131.7	120.6	112.1	111.6
32.5°	1326.7	1243.1	891.3	257.1	152.3	137.0	122.7	106.9	95.2	88.9	88.9
35°	1421.9	1327.7	819.9	189.4	137.0	119.0	101.6	86.2	77.2	73.0	71.4
37.5°	1566.8	1451.5	721.5	153.9	122.2	103.2	85.2	70.9	63.5	60.3	60.3
40°	1784.2	1602.8	600.9	134.9	107.9	87.8	70.9	59.8	54.0	50.3	50.3
42.5°	2054.0	1787.9	478.7	121.1	94.7	75.6	59.2	50.8	45.5	42.8	42.3
45°	2393.6	1983.1	368.7	108.4	84.1	64.5	50.3	42.8	37.6	36.0	36.5
47.5°	2748.0	2155.0	285.6	97.3	73.0	54.5	42.8	37.0	33.3	31.2	31.2
50°	3050.6	2273.5	216.9	84.6	64.5	46.0	37.6	33.3	30.2	29.1	28.6
52.5°	3303.5	2307.9	166.1	73.5	56.6	39.7	33.3	30.2	27.5	25.9	25.9
55°	3518.8	2277.8	130.1	61.9	47.6	34.4	29.6	27.0	23.8	22.2	21.7
57.5°	3644.6	2181.0	99.4	51.3	38.6	28.6	25.9	22.7	19.0	16.4	16.4
60°	3708.1	2040.3	76.2	42.3	29.6	22.7	21.2	16.9	13.2	11.1	10.6
62.5°	3632.0	1853.5	57.7	33.3	22.2	16.9	14.3	12.2	8.5	6.3	6.3
63°	3584.9	1799.6	55.5	31.7	20.6	15.9	13.2	11.1	7.4	5.8	5.3
65°	3268.0	1564.2	45.5	25.4	16.4	11.1	9.0	7.9	5.3	2.6	2.1
67.5°	2595.2	1196.5	36.0	19.0	11.6	7.9	5.3	4.8	1.6	0.0	0.0
70°	1754.6	772.8	28.0	13.8	7.9	4.8	2.6	2.1	0.5	0.0	0.0
72.5°	915.1	396.2	21.7	10.1	4.8	3.2	1.6	0.5	0.0	0.0	0.0
75°	323.7	134.9	15.9	6.3	3.2	1.6	0.5	0.0	0.0	0.0	0.0
77.5°	97.9	50.3	10.1	4.8	2.1	1.1	0.0	0.0	0.0	0.0	0.0
80°	34.4	18.5	5.8	3.2	1.6	0.5	0.0	0.0	0.0	0.0	0.0
82.5°	16.9	9.0	3.7	2.6	1.6	0.5	0.0	0.0	0.0	0.0	0.0
85°	9.5	5.8	3.2	2.6	1.6	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	6.9	4.2	3.2	2.6	2.1	1.1	0.5	0.0	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)