

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: P451369

Luminaire Tested: **GALN-SA2B-727-U-T2R-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451369
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-SA2B-727-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 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: 7662 lumens
Efficiency: N/A
Efficacy: 93.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

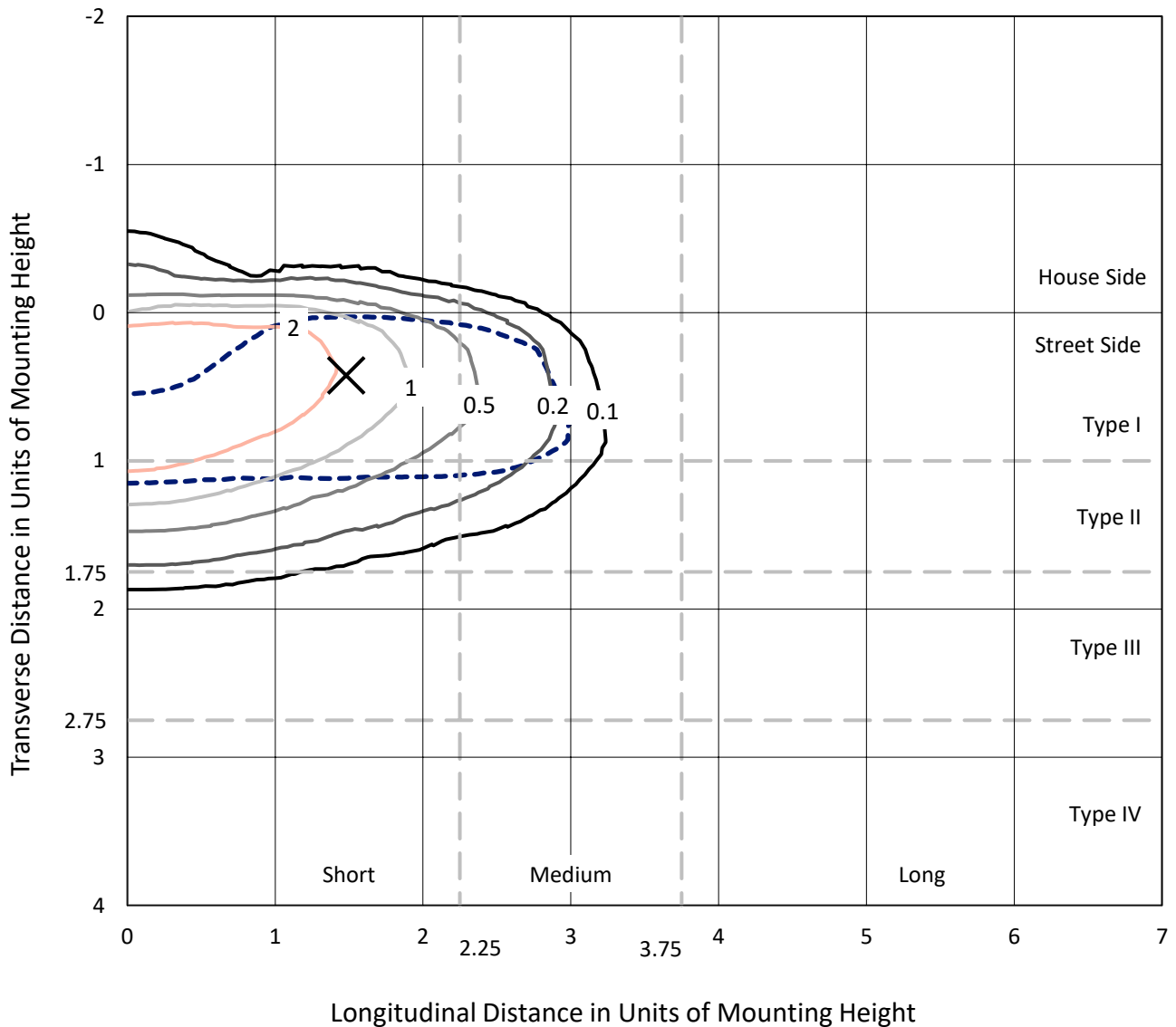
Input Watts (W): 82
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

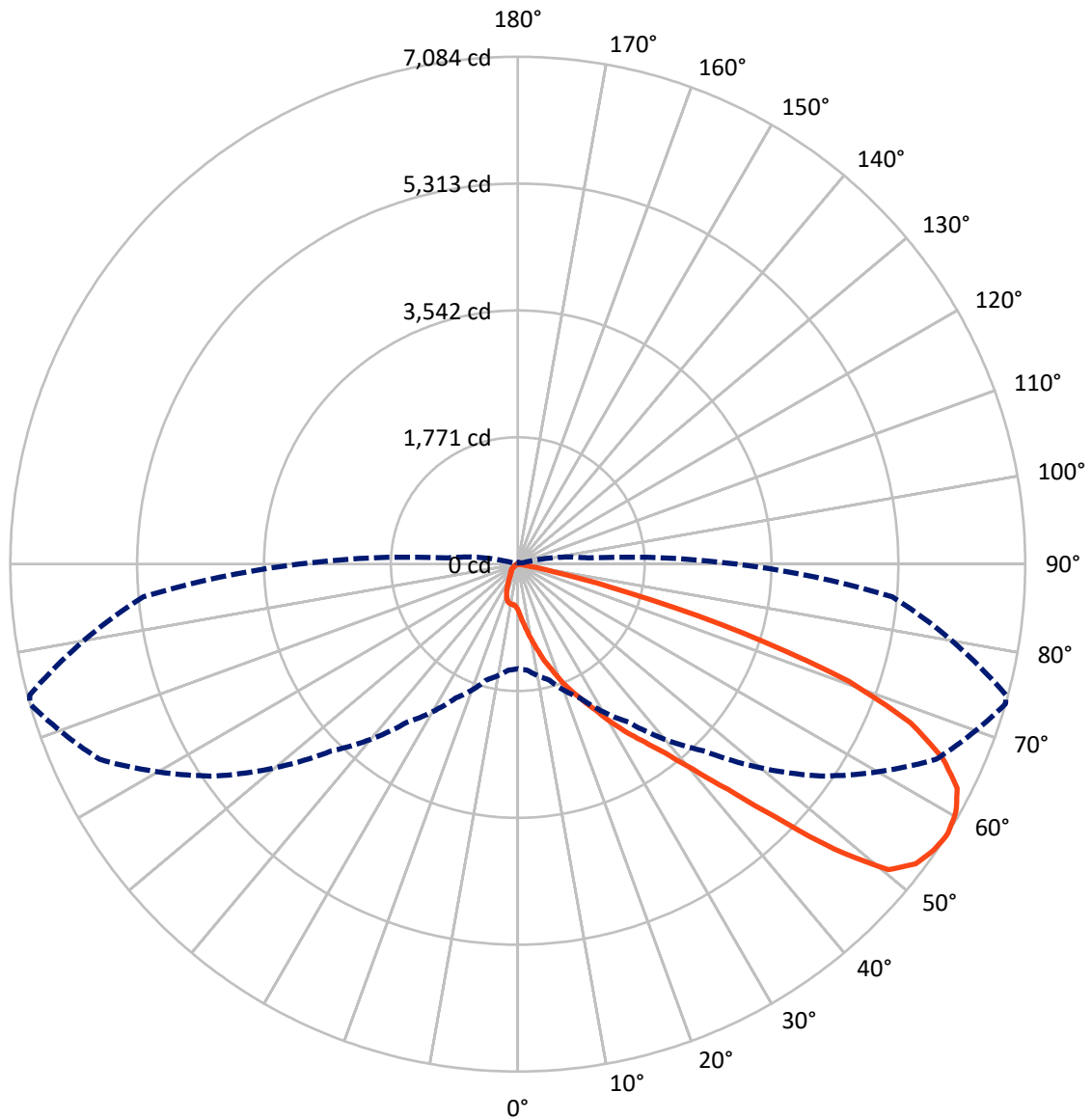
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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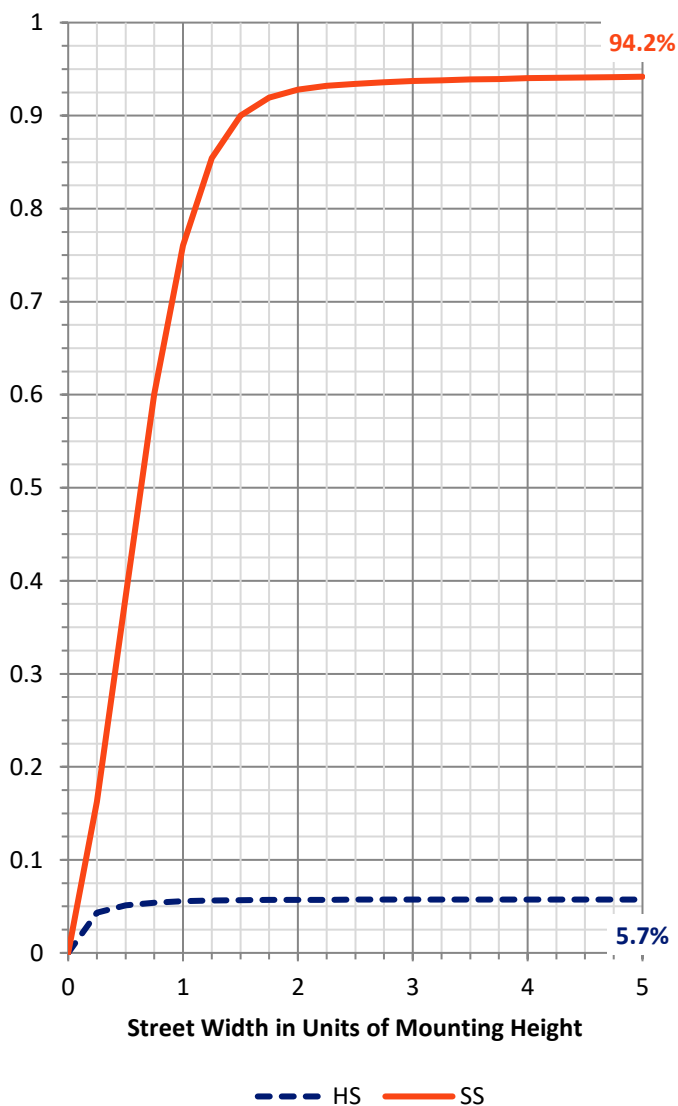
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	441.9	0.0	441.9
	% Fixture	5.8	0.0	5.8
Street Side	Lumens	7220.1	0.0	7220.1
	% Fixture	94.2	0.0	94.2
Total	Lumens	7662.0	0.0	7662.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.5	1.0
10°-20°	305.3	4.0
20°-30°	653.2	8.5
30°-40°	1200.7	15.7
40°-50°	1840.6	24.0
50°-60°	1947.1	25.4
60°-70°	1271.5	16.6
70°-80°	347.4	4.5
80°-90°	18.7	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°	7662.0	100.0
0°-180°	7662.0	100.0

Coefficient of Utilization



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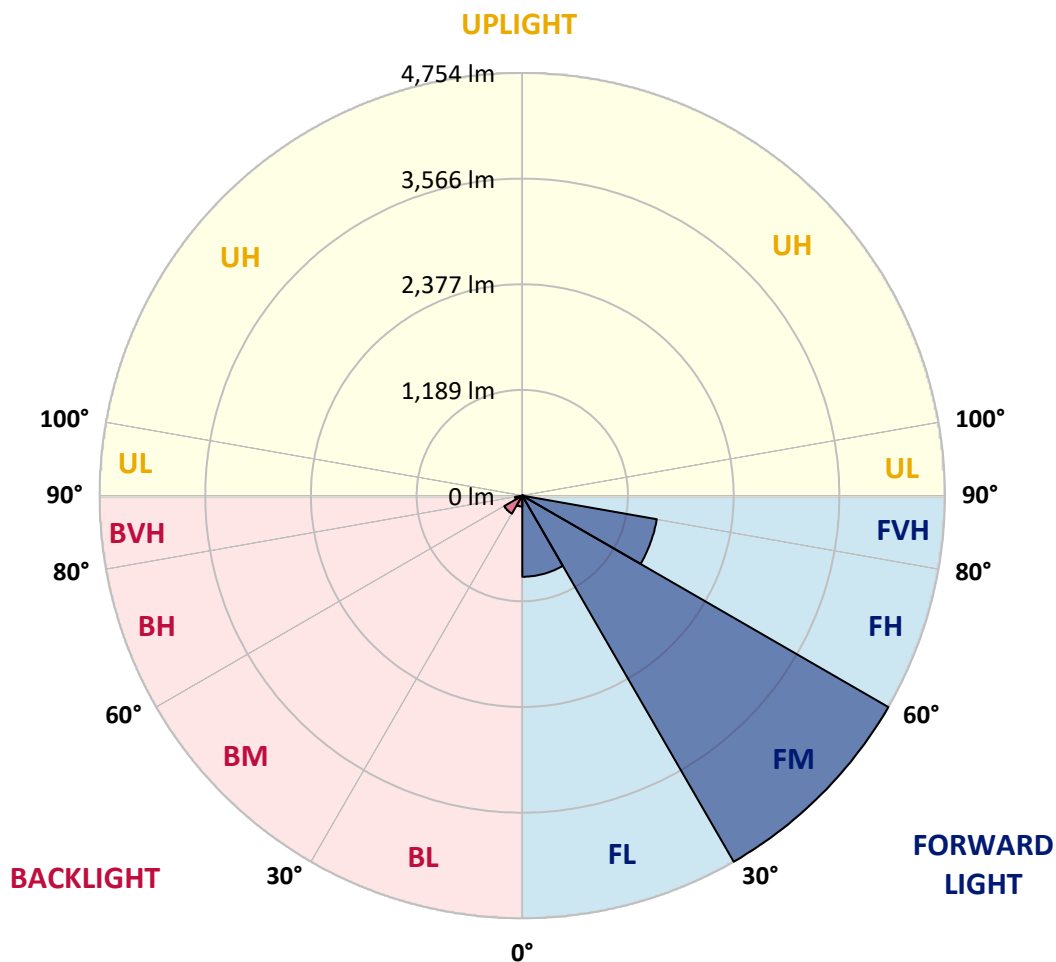
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	912.5	11.9			
FM	(30°-60°)	4754.4	62.1			
FH	(60°-80°)	1536.0	20.0			G1/1800
FVH	(80°-90°)	17.2	0.2			G1/100
BL	(0°-30°)	123.4	1.6	B1/500		
BM	(30°-60°)	234.0	3.1	B1/1000		
BH	(60°-80°)	83.0	1.1	B0/110		G0/110
BVH	(80°-90°)	1.5	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°	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7
2.5°	939.0	930.5	913.6	907.8	882.9	844.3	810.4	764.9	729.0	725.3	681.9
5°	1257.4	1238.4	1230.5	1192.4	1132.6	1076.5	980.2	907.2	823.1	816.8	729.5
7.5°	1564.3	1537.8	1529.9	1493.9	1424.1	1335.7	1210.9	1078.1	944.8	932.6	793.5
10°	1786.4	1790.2	1775.9	1752.1	1695.5	1605.5	1451.6	1270.1	1080.2	1064.9	865.5
12.5°	1945.7	1945.1	1947.8	1947.3	1917.1	1848.9	1687.0	1478.0	1229.4	1199.3	948.0
15°	2049.4	2051.0	2058.9	2086.4	2089.6	2047.2	1912.4	1676.9	1402.4	1364.8	1037.4
17.5°	2154.1	2165.2	2177.9	2203.8	2227.1	2210.2	2115.0	1884.3	1559.0	1530.9	1133.1
20°	2327.1	2342.4	2335.0	2350.9	2363.1	2364.7	2291.1	2075.8	1748.9	1701.8	1242.6
22.5°	2603.8	2603.2	2584.2	2555.6	2531.8	2530.8	2464.1	2272.6	1921.3	1875.9	1352.7
25°	2953.4	2955.0	2918.0	2836.5	2777.3	2704.8	2628.1	2445.1	2106.0	2049.9	1468.5
27.5°	3354.4	3344.4	3288.3	3176.1	3058.7	2934.9	2824.4	2645.6	2301.7	2255.1	1601.3
30°	3714.7	3711.0	3645.4	3508.4	3353.9	3229.6	3069.3	2896.8	2555.1	2498.0	1749.9
32.5°	4050.1	4055.3	3964.4	3822.6	3673.4	3530.0	3360.8	3137.0	2803.7	2722.8	1911.8
35°	4311.9	4317.2	4223.0	4105.1	3951.7	3832.6	3671.3	3393.0	3049.2	2980.9	2098.0
37.5°	4451.6	4458.5	4404.0	4315.1	4219.3	4159.6	4009.3	3722.6	3347.5	3306.3	2318.1
40°	4478.0	4486.0	4462.2	4438.3	4433.1	4475.9	4432.0	4110.9	3761.2	3696.7	2646.1
42.5°	4398.7	4409.3	4419.8	4472.7	4580.7	4737.8	4890.6	4637.8	4293.9	4207.2	3047.1
45°	4190.2	4189.2	4231.0	4368.0	4609.7	4945.1	5369.9	5297.5	5019.7	4916.6	3613.6
47.5°	3833.7	3828.4	3918.9	4114.1	4490.7	4983.2	5760.9	6098.4	5946.0	5850.8	4222.5
50°	3290.4	3316.3	3458.6	3731.1	4195.0	4867.9	5881.5	6623.7	6706.2	6605.2	4714.5
52.5°	2654.0	2653.0	2876.2	3246.0	3757.0	4614.0	5797.4	6718.9	6953.2	6876.0	4956.8
55°	1964.2	1977.9	2210.2	2583.1	3188.3	4150.6	5522.8	6621.0	7047.4	6992.9	5116.5
57°	1461.1	1485.4	1671.7	2066.3	2693.2	3691.9	5157.3	6445.9	7084.4	7054.8	5249.3
57.5°	1363.8	1364.8	1546.3	1904.9	2548.2	3515.8	5052.5	6372.9	7083.4	7067.0	5271.0
60°	839.5	866.0	991.4	1287.6	1865.3	2743.9	4350.5	5953.4	7028.4	7052.2	5363.6
62.5°	502.6	513.7	595.1	776.0	1202.4	2002.8	3560.2	5416.5	6885.0	6957.5	5357.2
65°	323.2	325.9	362.9	469.8	751.7	1353.7	2743.4	4707.1	6514.2	6647.5	5147.7
67.5°	249.7	253.9	268.7	308.4	435.9	843.2	1940.4	3950.1	5914.3	6086.2	4639.9
70°	221.7	223.8	229.1	241.8	288.3	476.1	1207.2	3085.7	4904.4	4953.1	3631.1
72.5°	180.9	186.7	203.1	207.4	228.5	297.3	671.8	2071.1	3295.2	3307.3	2031.4
75°	140.2	141.2	165.6	177.7	192.6	204.7	299.9	1044.3	1582.8	1498.1	782.9
77.5°	104.7	109.5	120.6	136.0	157.1	146.5	134.4	393.6	491.4	482.5	227.5
80°	67.2	69.8	84.1	102.1	122.2	95.7	75.6	115.3	107.9	111.1	54.5
82.5°	33.9	34.4	54.0	83.1	77.8	48.1	47.6	47.1	40.2	39.7	25.4
85°	3.7	7.9	34.9	47.6	34.9	15.9	22.2	21.7	21.2	21.7	14.8
87.5°	0.5	0.5	5.8	6.9	4.8	5.3	6.3	6.9	8.5	7.9	6.3
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°	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7	641.7
2.5°	660.7	639.6	600.4	562.9	534.8	516.8	493.6	485.1	472.9	471.3	465.5
5°	689.3	649.1	580.8	526.9	483.5	450.7	422.1	398.3	379.3	375.1	377.2
7.5°	730.0	670.2	575.0	501.5	441.2	385.1	339.6	311.6	291.5	284.1	285.1
10°	776.0	698.3	574.0	474.5	382.5	313.7	264.0	239.1	227.5	223.2	218.5
12.5°	830.5	730.6	571.3	432.7	317.9	250.2	214.8	200.0	188.9	185.7	185.7
15°	891.9	764.9	558.6	380.9	258.2	206.8	183.0	171.4	167.7	164.5	164.5
17.5°	955.9	798.8	532.2	316.9	214.2	177.2	162.4	155.5	150.2	146.5	146.5
20°	1028.9	832.1	489.9	260.3	180.9	158.2	146.5	138.6	134.4	131.2	130.1
22.5°	1098.2	859.1	435.9	213.7	157.6	142.3	131.7	123.3	119.0	117.4	117.4
25°	1170.2	875.5	370.8	176.7	143.9	129.1	117.4	110.6	106.9	105.8	105.3
27.5°	1240.0	885.0	313.7	154.5	131.2	116.9	105.8	100.5	96.8	95.7	96.3
30°	1324.6	886.6	258.2	138.6	120.1	105.3	95.2	90.5	88.3	87.3	86.8
32.5°	1410.3	884.5	216.9	129.1	109.5	95.2	86.8	83.1	81.5	79.9	79.9
35°	1506.6	873.4	184.6	119.6	99.5	86.8	79.4	76.2	74.1	72.5	71.9
37.5°	1626.2	867.6	166.1	109.0	90.5	78.8	71.9	68.8	67.2	65.1	64.5
40°	1814.5	893.5	160.3	99.5	81.5	71.4	65.1	61.4	59.2	57.1	56.6
42.5°	2049.4	939.0	150.8	89.9	73.5	64.5	58.2	54.0	50.3	47.6	46.6
45°	2353.5	998.8	136.0	79.9	66.7	57.1	51.3	46.0	41.3	39.1	38.6
47.5°	2672.5	1056.4	122.7	71.9	59.2	50.8	44.4	38.6	34.4	32.8	32.3
50°	2868.3	1068.1	114.3	63.0	51.8	43.9	37.6	32.3	29.6	28.0	28.0
52.5°	2957.7	1049.5	102.6	55.0	45.0	38.6	32.3	28.0	26.5	25.4	24.9
55°	3020.1	1021.0	87.3	47.6	38.6	32.8	28.6	25.4	23.3	22.2	21.7
57°	3056.6	982.4	75.6	41.8	33.3	28.6	25.4	22.7	20.6	18.5	18.5
57.5°	3058.2	967.5	72.5	41.3	31.7	27.5	24.9	22.2	19.6	17.5	16.9
60°	3011.1	866.0	58.2	34.9	25.4	23.3	20.6	17.5	13.8	11.6	11.1
62.5°	2859.8	736.9	48.1	29.6	20.6	18.0	14.8	13.2	9.5	6.9	6.9
65°	2630.7	597.8	41.3	23.8	16.9	13.2	10.1	9.5	5.8	3.2	2.6
67.5°	2299.6	465.5	34.9	19.6	14.3	9.5	6.9	6.3	3.2	1.1	0.0
70°	1752.1	317.4	29.1	15.9	10.6	6.9	4.8	3.7	2.1	0.5	0.0
72.5°	1009.9	174.6	24.3	12.2	7.9	5.3	3.7	2.1	2.1	0.0	0.0
75°	360.8	75.1	18.5	9.0	6.3	4.2	2.6	1.1	1.6	0.5	0.0
77.5°	114.8	40.2	12.2	6.9	5.3	3.2	2.1	1.1	1.1	0.5	0.0
80°	33.9	21.2	7.4	5.8	3.7	2.6	1.6	0.5	1.1	0.5	0.0
82.5°	18.5	10.6	5.8	4.2	3.7	2.1	1.6	0.5	0.5	0.5	0.0
85°	9.5	6.3	4.8	4.2	3.7	2.1	1.6	0.5	0.0	0.5	0.5
87.5°	5.3	4.8	4.8	4.2	3.7	2.6	1.6	0.5	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)