

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: P652243

Luminaire Tested: **GALN-SA2B-840-U-T2R-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652243  
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-840-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 80 CRI, 4000K, 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: 7704.4 lumens  
Efficiency: N/A  
Efficacy: 94.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B1 - U0 - G1

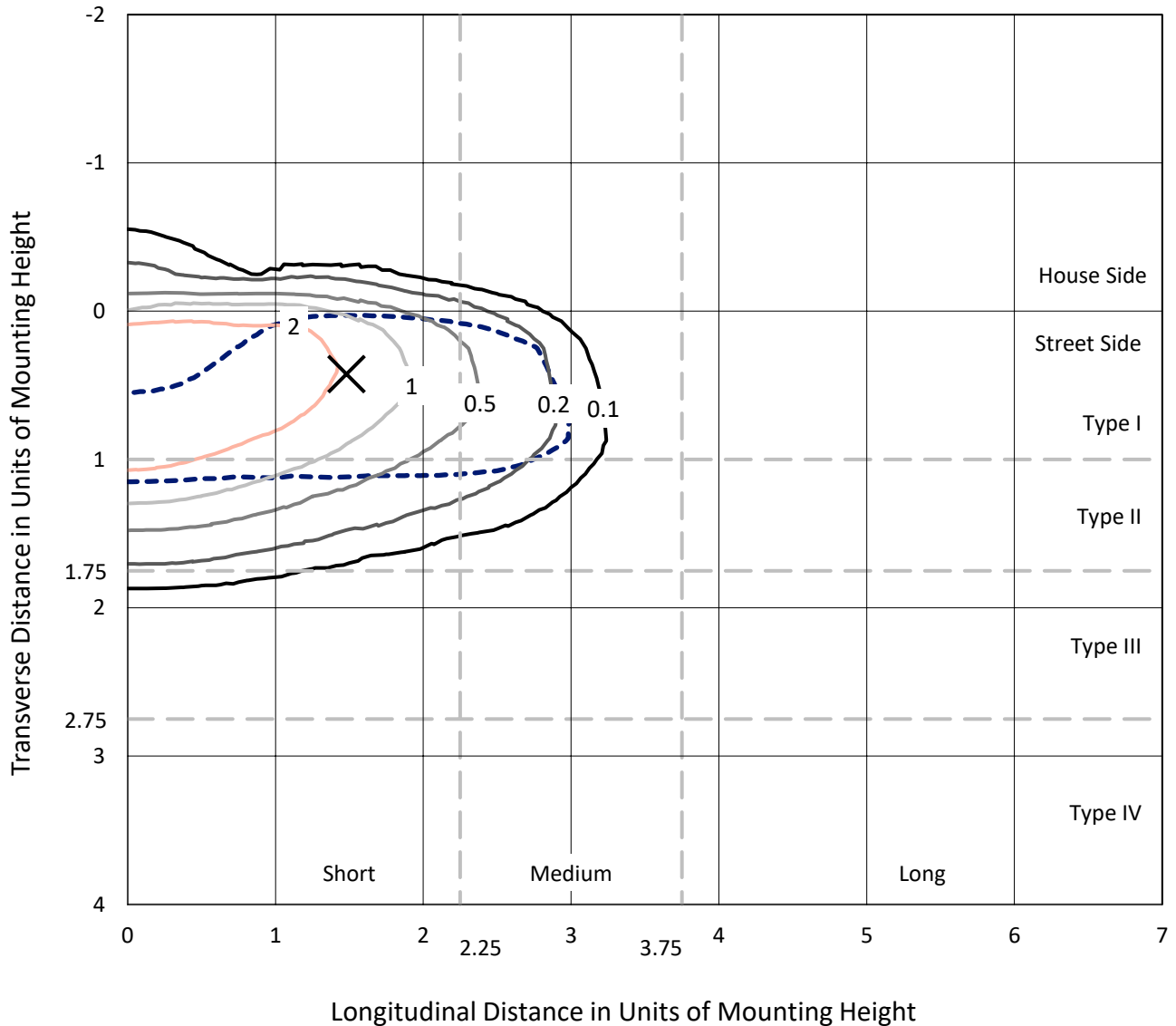
Input Watts (W): 82  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

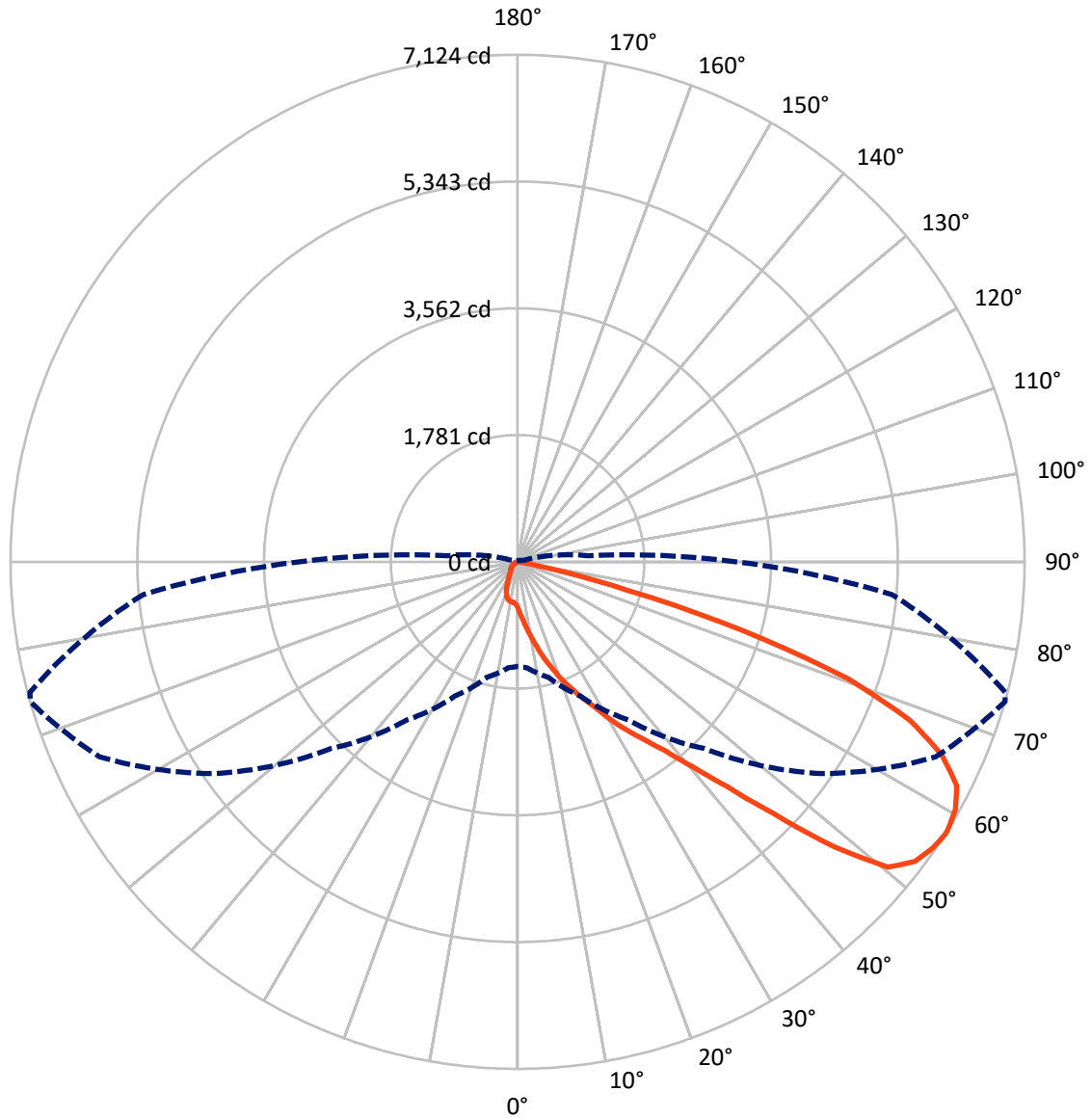
✕ Max cd  
 - - - 1/2 Max cd



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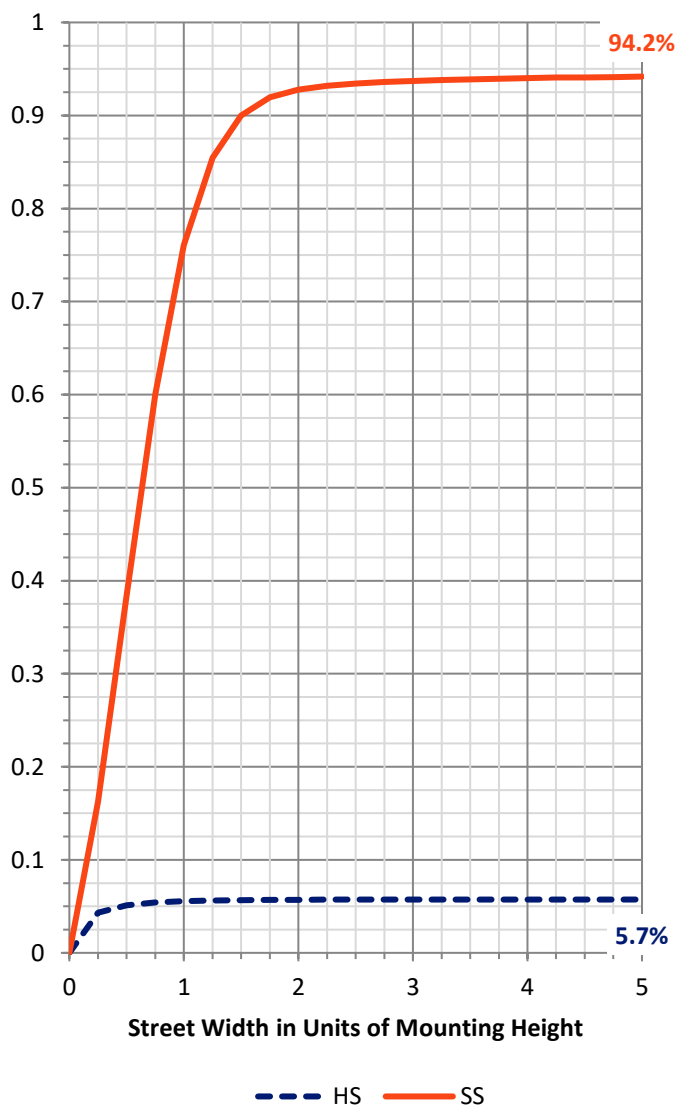
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	444.4	0.0	444.4
	% Fixture	5.8	0.0	5.8
<b>Street Side</b>	Lumens	7260.0	0.0	7260.0
	% Fixture	94.2	0.0	94.2
<b>Total</b>	Lumens	7704.4	0.0	7704.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.9	1.0
10°-20°	307.0	4.0
20°-30°	656.9	8.5
30°-40°	1207.3	15.7
40°-50°	1850.8	24.0
50°-60°	1957.9	25.4
60°-70°	1278.6	16.6
70°-80°	349.4	4.5
80°-90°	18.8	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°	7704.4	100.0
0°-180°	7704.4	100.0

**Coefficient of Utilization**



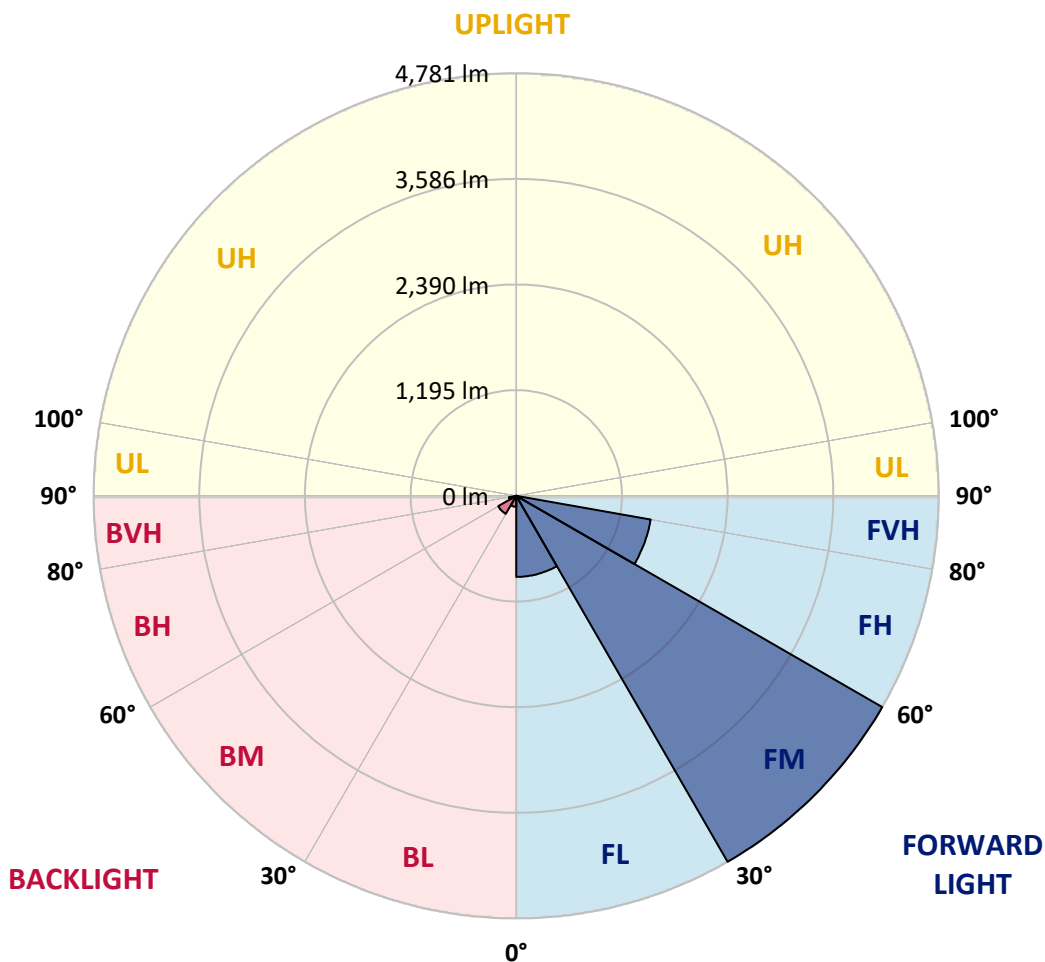
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	917.6	11.9			
FM (30°-60°)	4780.7	62.1			
FH (60°-80°)	1544.5	20.0			G1/1800
FVH (80°-90°)	17.3	0.2			G1/100
BL (0°-30°)	124.1	1.6	B1/500		
BM (30°-60°)	235.3	3.1	B1/1000		
BH (60°-80°)	83.4	1.1	B0/110		G0/110
BVH (80°-90°)	1.6	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°	645.2	645.2	645.2	645.2	645.2	645.2	645.2	645.2	645.2	645.2	645.2
2.5°	944.2	935.7	918.6	912.8	887.8	849.0	814.9	769.2	733.0	729.3	685.7
5°	1264.4	1245.3	1237.3	1199.0	1138.9	1082.5	985.7	912.2	827.7	821.3	733.5
7.5°	1572.9	1546.3	1538.4	1502.2	1432.0	1343.2	1217.6	1084.0	950.0	937.8	797.9
10°	1796.4	1800.1	1785.7	1761.7	1704.9	1614.4	1459.6	1277.1	1086.2	1070.8	870.3
12.5°	1956.4	1955.9	1958.6	1958.0	1927.7	1859.1	1696.3	1486.2	1236.2	1205.9	953.2
15°	2060.7	2062.3	2070.3	2098.0	2101.2	2058.6	1922.9	1686.2	1410.2	1372.3	1043.1
17.5°	2166.0	2177.2	2190.0	2216.0	2239.4	2222.4	2126.6	1894.8	1567.6	1539.5	1139.4
20°	2340.0	2355.4	2348.0	2363.9	2376.2	2377.8	2303.8	2087.3	1758.5	1711.3	1249.5
22.5°	2618.2	2617.6	2598.5	2569.8	2545.8	2544.8	2477.8	2285.2	1931.9	1886.2	1360.1
25°	2969.7	2971.3	2934.2	2852.3	2792.6	2719.8	2642.7	2458.6	2117.6	2061.2	1476.6
27.5°	3373.0	3362.9	3306.5	3193.7	3075.6	2951.2	2840.0	2660.2	2314.4	2267.6	1610.2
30°	3735.2	3731.5	3665.6	3527.7	3372.4	3247.4	3086.3	2912.9	2569.3	2511.8	1759.6
32.5°	4072.5	4077.8	3986.3	3843.7	3693.8	3549.6	3379.4	3154.3	2819.2	2737.9	1922.4
35°	4335.8	4341.1	4246.4	4127.8	3973.6	3853.9	3691.6	3411.9	3066.0	2997.4	2109.6
37.5°	4476.2	4483.1	4428.4	4339.0	4242.7	4182.5	4031.5	3743.2	3366.1	3324.6	2330.9
40°	4502.8	4510.8	4486.8	4462.9	4457.6	4500.7	4456.5	4133.7	3782.1	3717.1	2660.8
42.5°	4423.0	4433.7	4444.3	4497.5	4606.0	4764.0	4917.7	4663.4	4317.7	4230.5	3063.9
45°	4213.4	4212.4	4254.4	4392.1	4635.3	4972.5	5399.6	5326.7	5047.5	4943.7	3633.6
47.5°	3854.9	3849.6	3940.6	4136.8	4515.6	5010.8	5792.7	6132.2	5978.9	5883.1	4245.9
50°	3308.6	3334.6	3477.8	3751.7	4218.2	4894.9	5914.0	6660.3	6743.3	6641.7	4740.5
52.5°	2668.7	2667.7	2892.1	3263.9	3777.8	4639.5	5829.5	6756.1	6991.7	6914.0	4984.2
55°	1975.1	1988.9	2222.4	2597.4	3206.0	4173.5	5553.4	6657.7	7086.4	7031.6	5144.8
57°	1469.2	1493.7	1680.9	2077.7	2708.1	3712.3	5185.8	6481.6	7123.6	7093.8	5278.4
57.5°	1371.3	1372.3	1554.8	1915.5	2562.3	3535.2	5080.5	6408.2	7122.6	7106.1	5300.2
60°	844.2	870.8	996.8	1294.7	1875.6	2759.2	4374.6	5986.3	7067.3	7091.2	5393.2
62.5°	505.4	516.5	598.5	780.4	1209.1	2013.9	3579.9	5446.5	6923.1	6995.9	5386.9
65°	325.0	327.7	364.9	472.4	755.9	1361.2	2758.6	4733.1	6550.2	6684.3	5176.3
67.5°	251.0	255.3	270.2	310.1	438.3	847.9	1951.1	3972.0	5947.0	6119.9	4665.6
70°	222.9	225.0	230.3	243.1	289.9	478.7	1213.9	3102.8	4931.5	4980.5	3651.2
72.5°	181.9	187.8	204.3	208.5	229.8	299.0	675.6	2082.5	3313.4	3325.7	2042.6
75°	141.0	142.0	166.5	178.7	193.6	205.9	301.6	1050.1	1591.5	1506.4	787.3
77.5°	105.3	110.1	121.3	136.7	158.0	147.3	135.1	395.8	494.2	485.1	228.8
80°	67.5	70.2	84.6	102.7	122.9	96.3	76.0	116.0	108.5	111.7	54.7
82.5°	34.1	34.6	54.2	83.5	78.2	48.4	47.9	47.3	40.5	39.9	25.6
85°	3.7	8.0	35.1	47.9	35.1	16.0	22.4	21.8	21.3	21.8	14.9
87.5°	0.5	0.5	5.9	6.9	4.8	5.3	6.4	6.9	8.5	8.0	6.4
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°	645.2	645.2	645.2	645.2	645.2	645.2	645.2	645.2	645.2	645.2	645.2
2.5°	664.4	643.1	603.8	566.0	537.8	519.7	496.3	487.8	475.6	474.0	468.1
5°	693.1	652.7	584.1	529.8	486.2	453.2	424.5	400.6	381.4	377.1	379.3
7.5°	734.0	674.0	578.2	504.3	443.6	387.3	341.5	313.3	293.1	285.7	286.7
10°	780.4	702.2	577.2	477.2	384.6	315.5	265.4	240.4	228.8	224.5	219.7
12.5°	835.1	734.6	574.5	435.1	319.7	251.6	216.0	201.1	189.9	186.7	186.7
15°	896.8	769.2	561.7	383.0	259.6	208.0	184.0	172.3	168.6	165.4	165.4
17.5°	961.2	803.2	535.1	318.7	215.5	178.2	163.3	156.4	151.0	147.3	147.3
20°	1034.6	836.7	492.6	261.7	181.9	159.0	147.3	139.4	135.1	132.0	130.9
22.5°	1104.3	863.9	438.3	214.9	158.5	143.1	132.5	124.0	119.7	118.1	118.1
25°	1176.6	880.4	372.9	177.7	144.7	129.8	118.1	111.2	107.5	106.4	105.9
27.5°	1246.9	889.9	315.5	155.3	132.0	117.6	106.4	101.1	97.3	96.3	96.8
30°	1332.0	891.5	259.6	139.4	120.8	105.9	95.7	91.0	88.8	87.8	87.2
32.5°	1418.1	889.4	218.1	129.8	110.1	95.7	87.2	83.5	81.9	80.3	80.3
35°	1515.0	878.3	185.6	120.2	100.0	87.2	79.8	76.6	74.4	72.9	72.3
37.5°	1635.2	872.4	167.0	109.6	91.0	79.2	72.3	69.1	67.5	65.4	64.9
40°	1824.5	898.4	161.1	100.0	81.9	71.8	65.4	61.7	59.5	57.4	56.9
42.5°	2060.7	944.2	151.6	90.4	73.9	64.9	58.5	54.2	50.5	47.9	46.8
45°	2366.6	1004.3	136.7	80.3	67.0	57.4	51.6	46.3	41.5	39.4	38.9
47.5°	2687.3	1062.3	123.4	72.3	59.5	51.0	44.7	38.9	34.6	33.0	32.5
50°	2884.1	1074.0	114.9	63.3	52.1	44.2	37.8	32.5	29.8	28.2	28.2
52.5°	2974.0	1055.4	103.2	55.3	45.2	38.9	32.5	28.2	26.6	25.6	25.0
55°	3036.8	1026.6	87.8	47.9	38.9	33.0	28.8	25.6	23.4	22.4	21.8
57°	3073.5	987.8	76.0	42.0	33.5	28.8	25.6	22.9	20.8	18.6	18.6
57.5°	3075.1	972.9	72.9	41.5	31.9	27.7	25.0	22.4	19.7	17.6	17.0
60°	3027.8	870.8	58.5	35.1	25.6	23.4	20.8	17.6	13.8	11.7	11.2
62.5°	2875.6	741.0	48.4	29.8	20.8	18.1	14.9	13.3	9.6	6.9	6.9
65°	2645.3	601.1	41.5	24.0	17.0	13.3	10.1	9.6	5.9	3.2	2.7
67.5°	2312.3	468.1	35.1	19.7	14.4	9.6	6.9	6.4	3.2	1.1	0.0
70°	1761.7	319.2	29.3	16.0	10.6	6.9	4.8	3.7	2.1	0.5	0.0
72.5°	1015.4	175.5	24.5	12.2	8.0	5.3	3.7	2.1	2.1	0.0	0.0
75°	362.8	75.5	18.6	9.1	6.4	4.3	2.7	1.1	1.6	0.5	0.0
77.5°	115.5	40.5	12.2	6.9	5.3	3.2	2.1	1.1	1.1	0.5	0.0
80°	34.1	21.3	7.5	5.9	3.7	2.7	1.6	0.5	1.1	0.5	0.0
82.5°	18.6	10.6	5.9	4.3	3.7	2.1	1.6	0.5	0.5	0.5	0.0
85°	9.6	6.4	4.8	4.3	3.7	2.1	1.6	0.5	0.0	0.5	0.5
87.5°	5.3	4.8	4.8	4.3	3.7	2.7	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)