

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: P528711

Luminaire Tested: **GALN-SA3D-740-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528711  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-740-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 13791 lumens  
Efficiency: N/A  
Efficacy: 75.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1

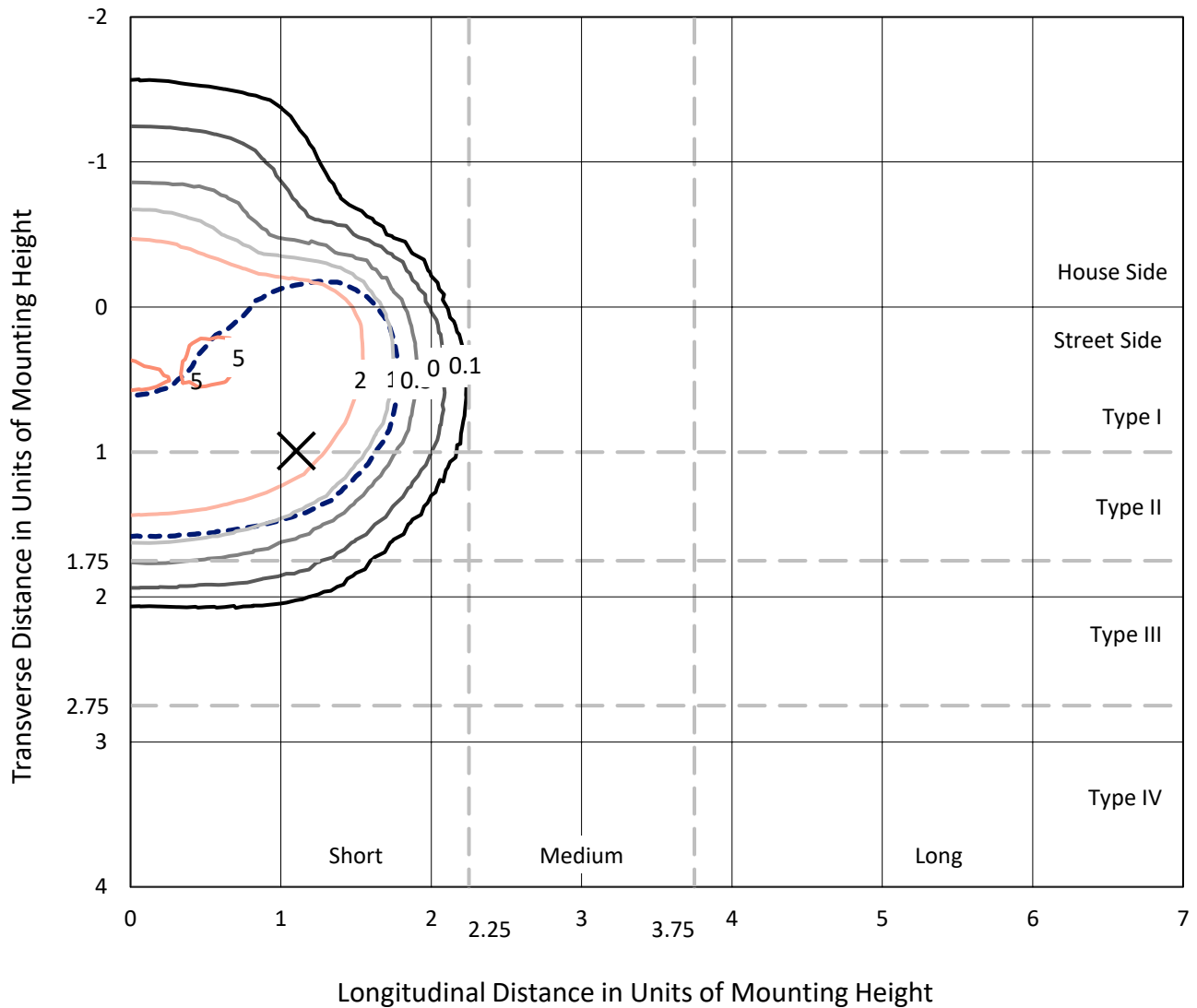
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

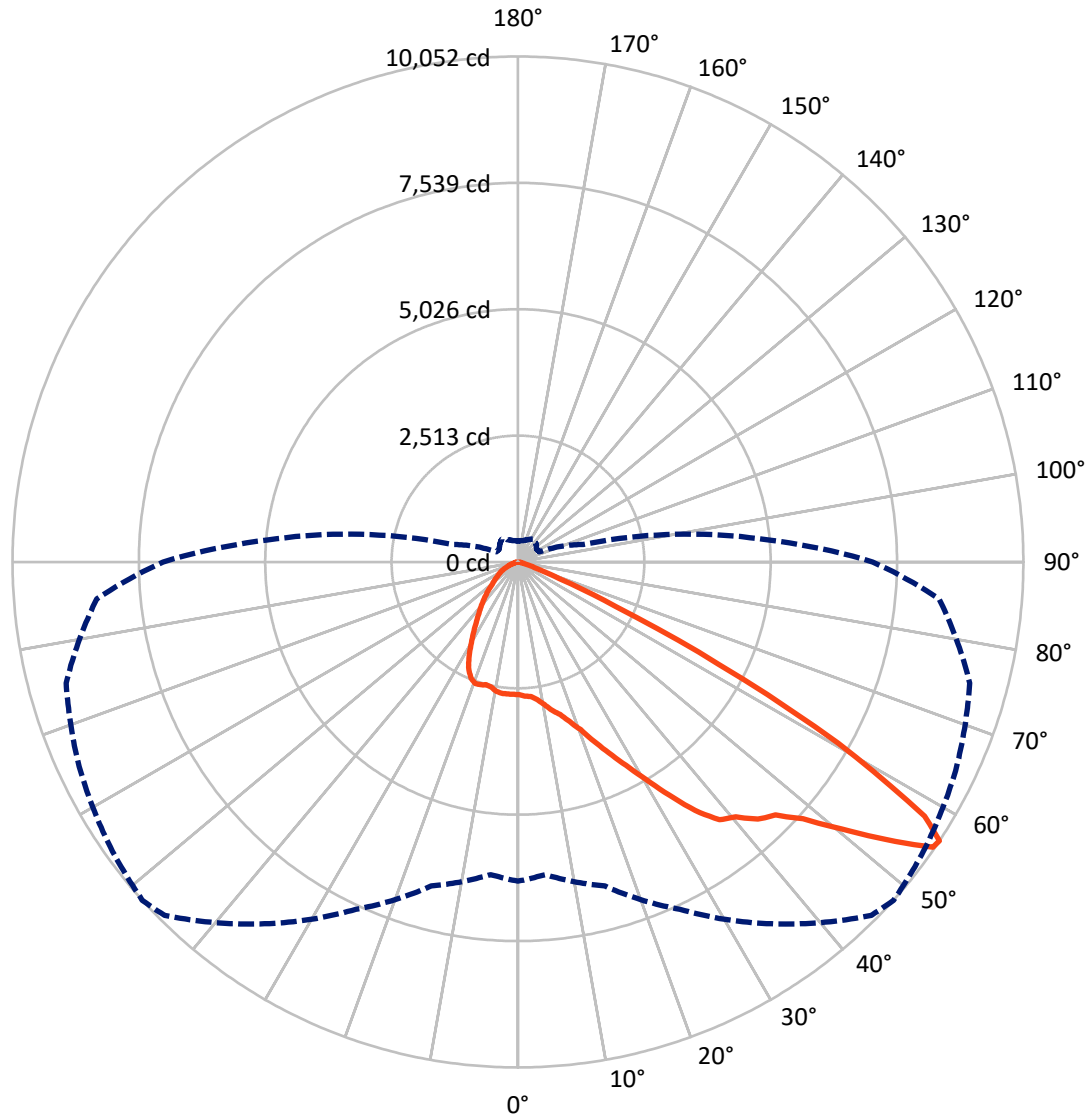
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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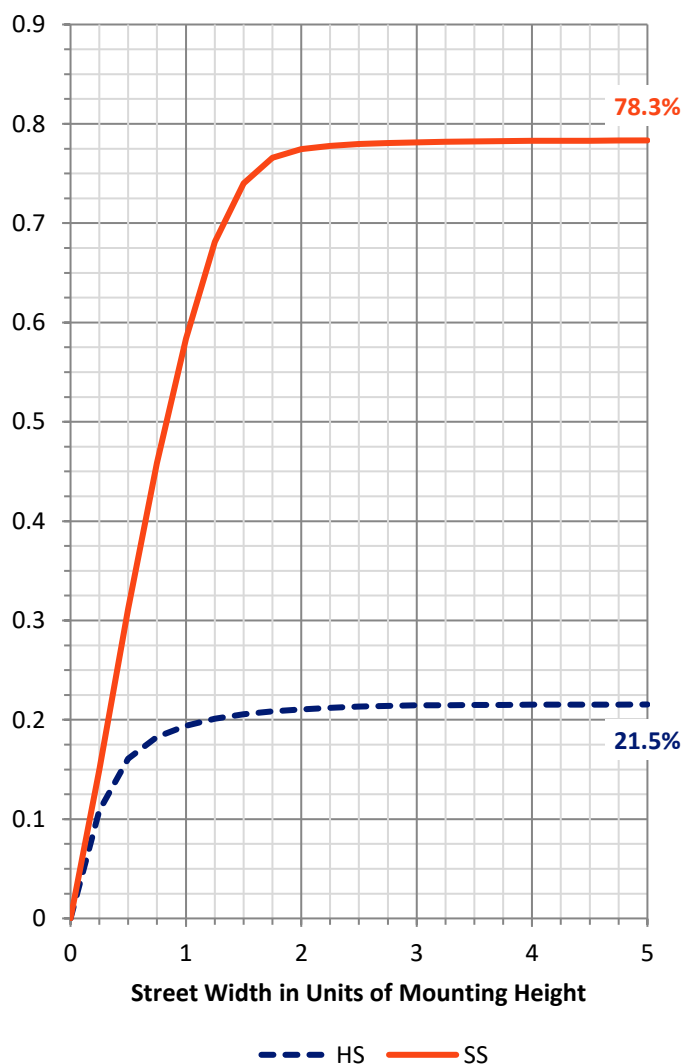
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2999.3	0.0	2999.3
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	10791.7	0.0	10791.7
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	13791.0	0.0	13791.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	256.6	1.9
10°-20°	820.0	5.9
20°-30°	1487.3	10.8
30°-40°	2336.3	16.9
40°-50°	3408.3	24.7
50°-60°	4106.3	29.8
60°-70°	1202.3	8.7
70°-80°	152.5	1.1
80°-90°	21.4	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°	13791.0	100.0
0°-180°	13791.0	100.0

**Coefficient of Utilization**

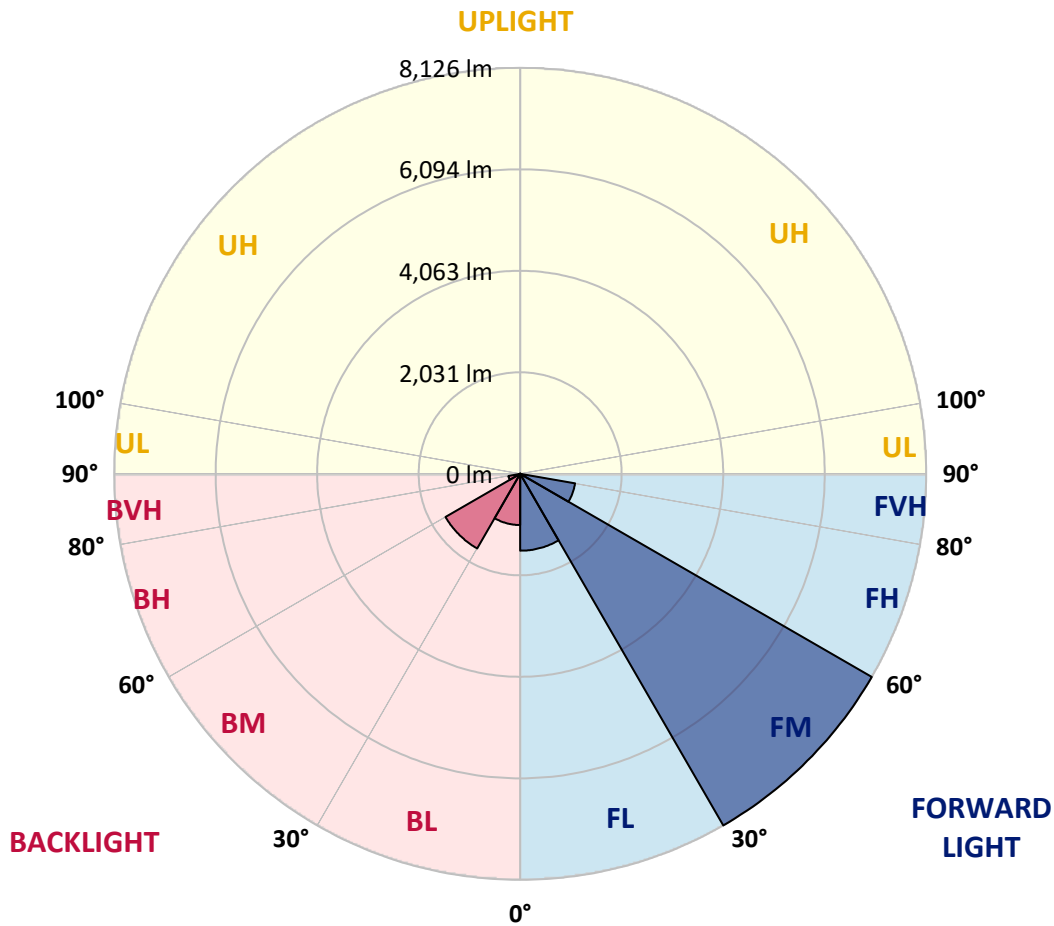


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1538.8	11.2			
FM (30°-60°)	8125.7	58.9			
FH (60°-80°)	1116.5	8.1			G1/1800
FVH (80°-90°)	10.7	0.1			G1/100
BL (0°-30°)	1025.1	7.4	B3/2500		
BM (30°-60°)	1725.2	12.5	B2/2500		
BH (60°-80°)	238.3	1.7	B1/500		G1/500
BVH (80°-90°)	10.6	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1
2.5°	2681.8	2669.2	2669.2	2649.2	2671.8	2661.7	2669.2	2644.1	2669.2	2631.6	2661.7
5°	2694.4	2696.9	2686.8	2699.4	2699.4	2714.4	2689.3	2711.9	2724.5	2696.9	2684.3
7.5°	2759.6	2764.7	2762.2	2752.1	2772.2	2769.7	2767.2	2749.6	2754.6	2744.6	2729.5
10°	2887.7	2885.2	2897.7	2872.6	2857.6	2875.1	2880.2	2852.5	2832.5	2824.9	2777.2
12.5°	3073.5	3043.4	3025.8	3000.7	3008.2	2983.1	3028.3	2980.6	2970.6	2925.4	2877.7
15°	3224.2	3219.2	3221.7	3181.5	3136.3	3146.3	3146.3	3121.2	3106.2	3050.9	2983.1
17.5°	3533.0	3427.6	3450.2	3400.0	3362.3	3359.8	3337.2	3342.2	3302.0	3186.5	3083.6
20°	3774.1	3728.9	3693.7	3608.4	3550.6	3568.2	3558.2	3533.0	3520.5	3369.8	3224.2
22.5°	3990.1	4005.1	3947.4	3924.8	3844.4	3851.9	3872.0	3849.4	3754.0	3598.3	3382.4
25°	4293.9	4276.3	4198.5	4170.8	4095.5	4123.1	4201.0	4183.4	4123.1	3841.9	3505.4
27.5°	4653.0	4592.7	4607.8	4482.2	4409.4	4487.2	4580.1	4668.0	4497.3	4128.2	3651.1
30°	4906.6	4843.8	4838.8	4833.8	4816.2	4906.6	5014.6	5094.9	4956.8	4414.4	3892.1
32.5°	5032.1	5047.2	5089.9	5074.8	5228.0	5413.8	5526.8	5642.3	5469.1	4881.5	4211.0
35°	5366.1	5270.7	5366.1	5376.1	5534.3	5928.6	6071.7	6347.9	6305.2	5541.9	4600.2
37.5°	5562.0	5554.4	5567.0	5662.4	5815.6	6302.7	6506.1	6719.6	6639.2	5938.6	5084.9
40°	5885.9	5906.0	5903.5	5976.3	6144.5	6584.0	6666.8	6840.1	6847.6	6488.5	5798.0
42.5°	6405.7	6325.3	6272.6	6347.9	6584.0	6827.5	6993.3	6958.1	7206.7	7156.5	6714.5
45°	6872.7	6920.4	6842.6	6968.2	7053.5	7184.1	7179.1	7254.4	7570.8	7809.4	7405.1
47.5°	7309.7	7339.8	7377.5	7462.8	7648.6	7668.7	7626.0	7593.4	8030.3	8276.4	7939.9
50°	7570.8	7598.4	7774.2	7927.4	8273.9	8319.1	8344.2	8261.3	8557.6	8585.3	8444.6
52.5°	7500.5	7530.6	7776.7	8281.4	8833.9	9248.2	9172.9	9032.2	9014.7	9122.6	8911.7
55°	6877.8	6850.1	7189.1	7975.1	9009.6	10004.0	10014.1	9865.9	9582.2	9509.3	8841.4
56°	6347.9	6239.9	6671.8	7621.0	8783.6	9938.7	10051.7	9893.5	9627.3	9300.9	8407.0
57.5°	5200.4	5303.3	5732.7	6518.7	8002.7	9469.2	9534.4	9496.8	9295.9	8748.5	7397.5
60°	2867.6	3048.4	3427.6	4389.3	5697.6	7267.0	7319.7	7626.0	7663.7	6699.5	5089.9
62.5°	1217.9	1197.8	1592.0	2300.1	3244.3	4386.8	4484.7	4798.6	4856.4	3862.0	2553.7
65°	494.7	522.3	720.7	1157.6	1715.0	1998.8	2136.9	2239.9	2430.7	1594.5	941.6
67.5°	326.4	323.9	424.4	660.4	924.1	891.4	891.4	941.6	871.3	650.4	406.8
70°	233.5	241.1	303.8	457.0	575.0	426.9	409.3	391.7	444.5	429.4	328.9
72.5°	153.2	163.2	203.4	273.7	298.8	233.5	233.5	281.2	366.6	346.5	268.7
75°	100.4	103.0	125.6	158.2	148.2	120.5	133.1	188.3	266.2	256.1	190.8
77.5°	67.8	70.3	85.4	103.0	82.9	67.8	72.8	95.4	130.6	130.6	100.4
80°	25.1	27.6	35.2	32.6	37.7	47.7	52.7	65.3	77.8	77.8	67.8
82.5°	0.0	2.5	7.5	17.6	27.6	37.7	42.7	50.2	57.8	65.3	62.8
85°	0.0	2.5	7.5	12.6	20.1	22.6	25.1	17.6	15.1	15.1	12.6
87.5°	0.0	0.0	2.5	2.5	2.5	2.5	2.5	2.5	5.0	2.5	2.5
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°	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1	2634.1
2.5°	2634.1	2631.6	2631.6	2624.0	2639.1	2631.6	2636.6	2634.1	2601.4	2626.6	2609.0
5°	2661.7	2679.3	2651.7	2646.6	2626.6	2634.1	2634.1	2609.0	2631.6	2629.1	2624.0
7.5°	2732.0	2701.9	2671.8	2641.6	2636.6	2629.1	2601.4	2591.4	2609.0	2588.9	2619.0
10°	2762.2	2767.2	2722.0	2681.8	2644.1	2591.4	2553.7	2531.1	2503.5	2533.6	2551.2
12.5°	2900.3	2850.0	2772.2	2709.4	2581.4	2528.6	2491.0	2480.9	2528.6	2538.7	2521.1
15°	2948.0	2940.4	2840.0	2699.4	2566.3	2503.5	2511.0	2491.0	2496.0	2470.9	2475.9
17.5°	3045.9	2960.5	2842.5	2666.7	2563.8	2548.7	2503.5	2423.2	2378.0	2357.9	2375.4
20°	3153.9	3071.0	2900.3	2679.3	2586.4	2546.2	2398.0	2300.1	2207.2	2157.0	2159.5
22.5°	3249.3	3146.3	2875.1	2684.3	2606.5	2440.7	2262.5	2069.1	1953.6	1875.8	1878.3
25°	3364.8	3219.2	2885.2	2694.4	2553.7	2272.5	2016.4	1828.0	1689.9	1637.2	1654.8
27.5°	3430.1	3264.4	2940.4	2717.0	2415.6	2033.9	1757.7	1582.0	1501.6	1476.5	1474.0
30°	3626.0	3364.8	3008.2	2671.8	2184.6	1777.8	1521.7	1413.7	1335.9	1313.3	1318.3
32.5°	3917.2	3548.1	3096.1	2553.7	1948.6	1549.3	1368.5	1288.2	1215.3	1172.7	1167.6
35°	4160.8	3862.0	3189.0	2370.4	1674.9	1373.5	1260.5	1160.1	1049.6	1001.9	989.4
37.5°	4625.3	4216.0	3168.9	2094.2	1413.7	1243.0	1145.0	1022.0	926.6	861.3	853.8
40°	5243.1	4630.4	3071.0	1757.7	1220.4	1127.5	1022.0	904.0	786.0	730.7	725.7
42.5°	5993.9	5137.6	2892.7	1416.2	1027.0	1012.0	916.5	780.9	675.5	635.3	637.8
45°	6604.1	5572.0	2711.9	1137.5	883.9	899.0	816.1	688.0	615.2	582.6	582.6
47.5°	7146.4	5865.8	2516.1	939.1	750.8	786.0	713.1	637.8	575.0	549.9	544.9
50°	7668.7	6164.6	2320.2	760.8	640.3	675.5	667.9	607.7	557.5	527.3	529.8
52.5°	7995.2	6212.3	2071.6	622.7	560.0	600.1	625.3	570.0	514.8	497.2	492.2
55°	7595.9	5597.1	1607.1	512.3	474.6	527.3	575.0	512.3	469.6	439.4	436.9
56°	7058.5	5004.5	1343.4	472.1	449.5	507.2	557.5	489.7	441.9	424.4	411.8
57.5°	5976.3	4095.5	991.9	419.3	416.8	472.1	529.8	467.1	411.8	396.7	396.7
60°	3726.4	2305.1	600.1	351.5	361.6	419.3	477.1	416.8	366.6	366.6	374.1
62.5°	1697.5	959.2	364.1	298.8	311.4	361.6	424.4	376.7	349.0	376.7	381.7
65°	577.5	414.3	263.7	238.5	246.1	298.8	364.1	381.7	379.2	396.7	406.8
67.5°	323.9	266.2	221.0	198.4	193.4	221.0	298.8	381.7	366.6	359.1	364.1
70°	273.7	226.0	195.9	175.8	168.2	178.3	231.0	288.8	258.6	251.1	246.1
72.5°	221.0	188.3	170.8	158.2	135.6	115.5	105.5	110.5	123.0	130.6	143.1
75°	155.7	143.1	143.1	128.1	97.9	72.8	57.8	47.7	32.6	22.6	25.1
77.5°	87.9	87.9	90.4	77.8	62.8	47.7	35.2	25.1	12.6	5.0	2.5
80°	60.3	65.3	70.3	62.8	52.7	42.7	30.1	17.6	7.5	0.0	0.0
82.5°	60.3	67.8	72.8	62.8	52.7	40.2	30.1	17.6	7.5	2.5	0.0
85°	12.6	15.1	17.6	20.1	30.1	30.1	22.6	15.1	7.5	2.5	0.0
87.5°	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	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)