

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: P528633

Luminaire Tested: **GALN-SA3D-727-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528633  
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-727-U-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 2700K, 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: 11533 lumens  
Efficiency: N/A  
Efficacy: 62.7 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

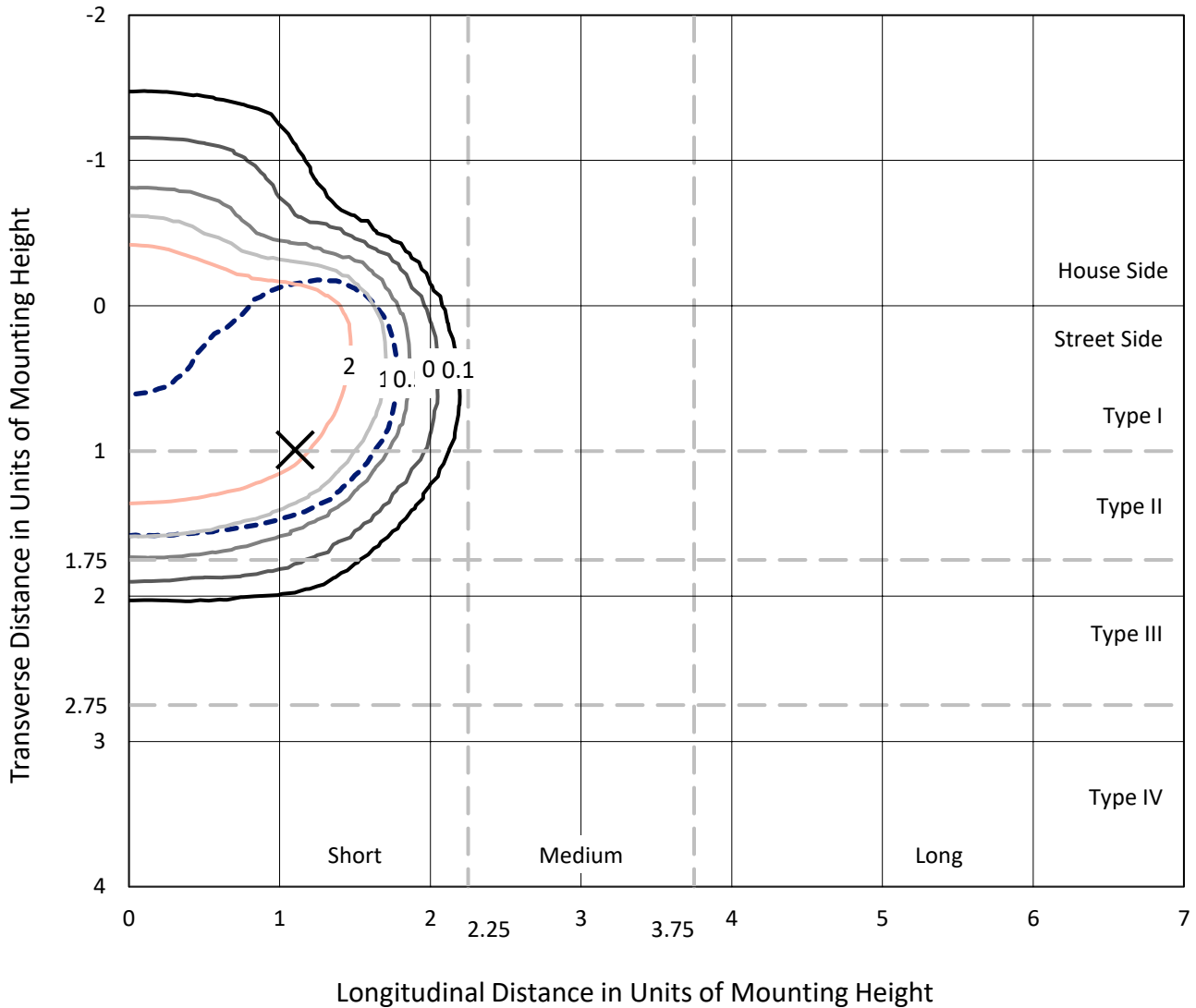
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

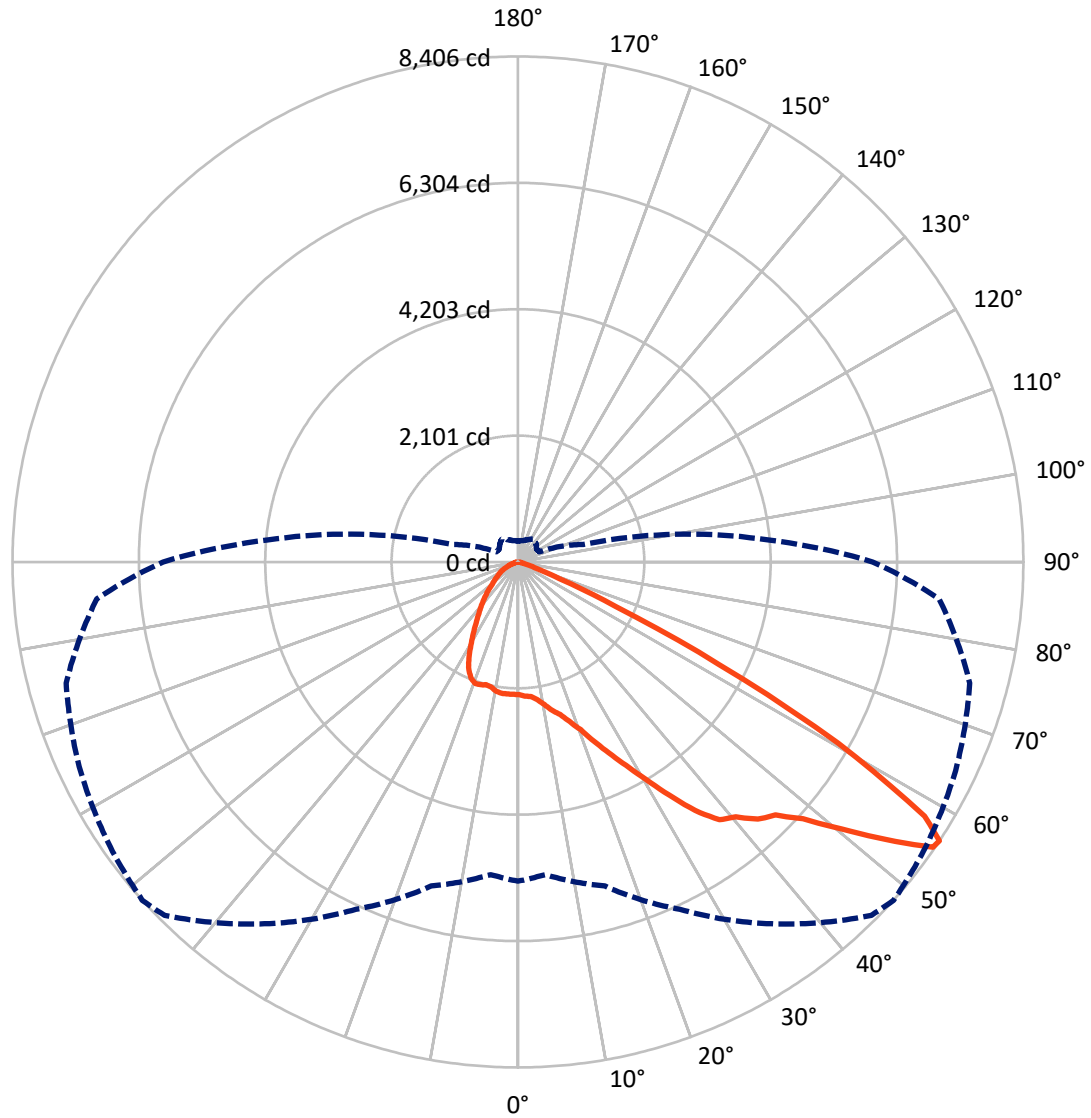
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 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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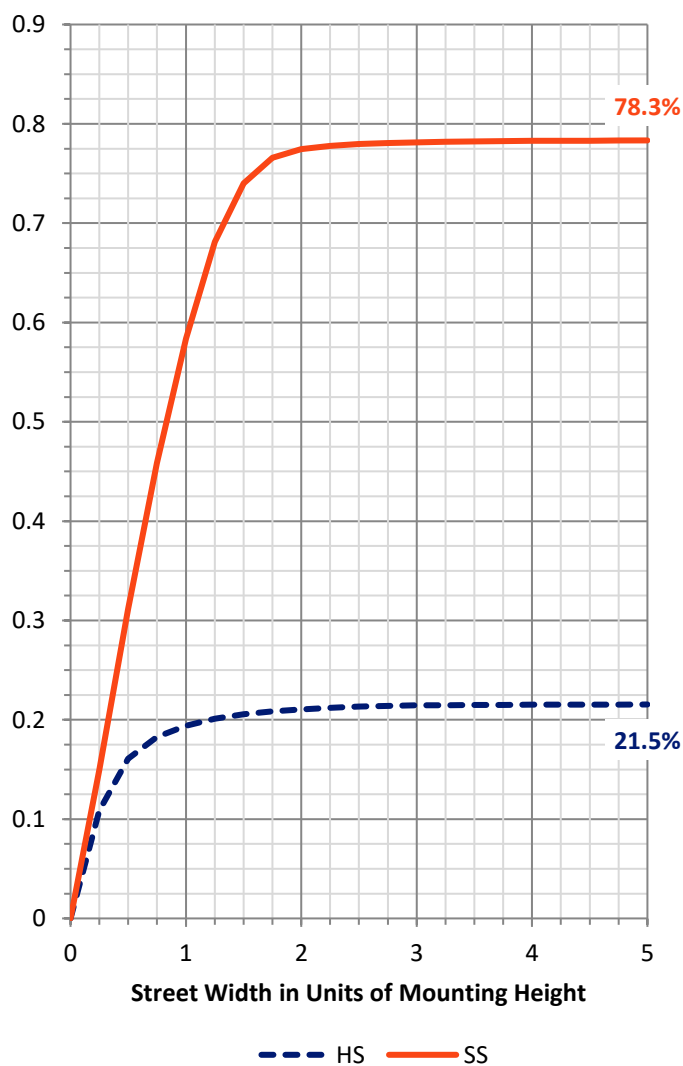
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2508.2	0.0	2508.2
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	9024.8	0.0	9024.8
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	11533.0	0.0	11533.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	214.6	1.9
10°-20°	685.8	5.9
20°-30°	1243.8	10.8
30°-40°	1953.8	16.9
40°-50°	2850.2	24.7
50°-60°	3434.0	29.8
60°-70°	1005.4	8.7
70°-80°	127.6	1.1
80°-90°	17.9	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°	11533.0	100.0
0°-180°	11533.0	100.0

**Coefficient of Utilization**

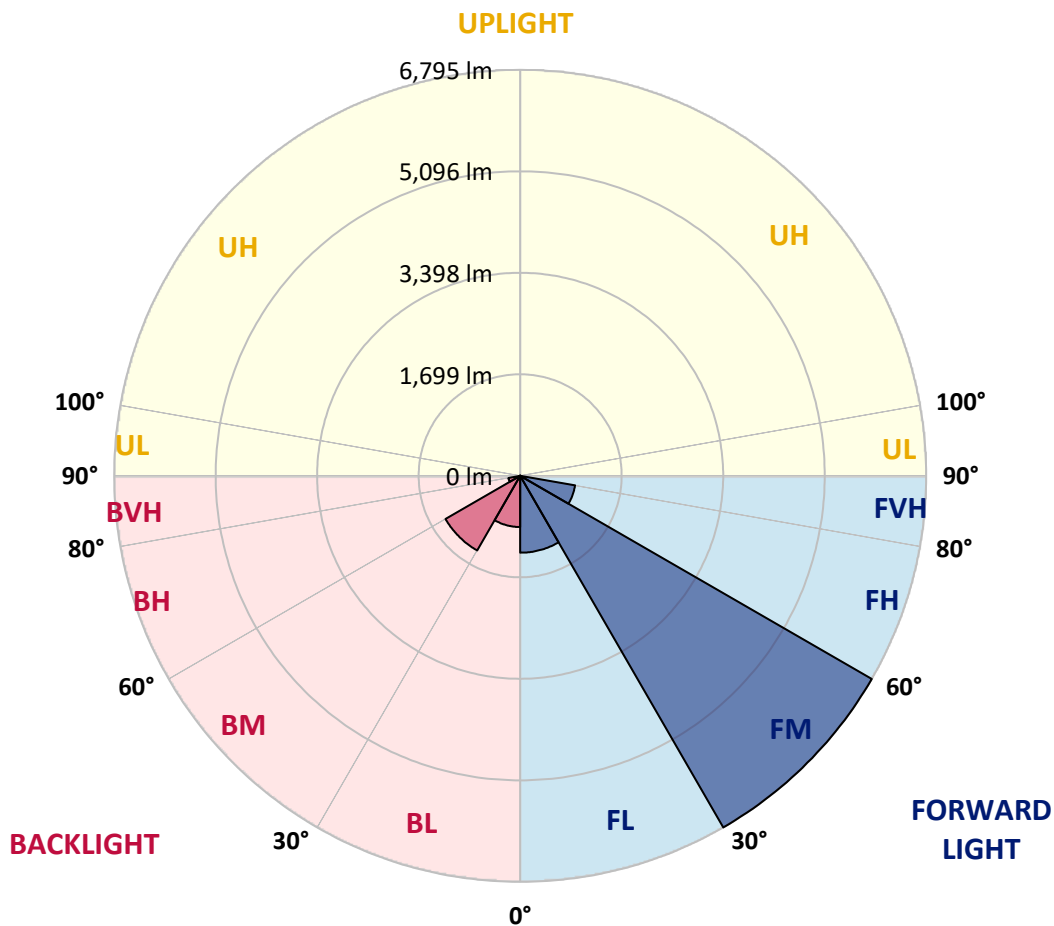


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1286.9	11.2			
FM (30°-60°)	6795.3	58.9			
FH (60°-80°)	933.7	8.1			G1/1800
FVH (80°-90°)	9.0	0.1			G0/10
BL (0°-30°)	857.3	7.4	B2/1000		
BM (30°-60°)	1442.7	12.5	B2/2500		
BH (60°-80°)	199.3	1.7	B1/500		G1/500
BVH (80°-90°)	8.9	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	48°	55°	65°	75°	85°
0°	2202.8	2202.8	2202.8	2202.8	2202.8	2202.8	2202.8	2202.8	2202.8	2202.8	2202.8
2.5°	2242.7	2232.2	2232.2	2215.4	2234.3	2225.9	2232.2	2211.2	2232.2	2200.7	2225.9
5°	2253.2	2255.3	2246.9	2257.4	2257.4	2270.0	2249.0	2267.9	2278.4	2255.3	2244.8
7.5°	2307.8	2312.0	2309.9	2301.5	2318.3	2316.2	2314.1	2299.4	2303.6	2295.2	2282.6
10°	2414.9	2412.8	2423.3	2402.3	2389.7	2404.4	2408.6	2385.5	2368.7	2362.4	2322.5
12.5°	2570.3	2545.1	2530.4	2509.4	2515.7	2494.7	2532.5	2492.6	2484.2	2446.4	2406.5
15°	2696.3	2692.1	2694.2	2660.6	2622.8	2631.2	2631.2	2610.2	2597.6	2551.4	2494.7
17.5°	2954.6	2866.4	2885.3	2843.3	2811.8	2809.7	2790.8	2795.0	2761.4	2664.8	2578.7
20°	3156.2	3118.4	3089.0	3017.6	2969.3	2984.0	2975.6	2954.6	2944.1	2818.1	2696.3
22.5°	3336.8	3349.4	3301.1	3282.2	3215.0	3221.3	3238.1	3219.2	3139.4	3009.2	2828.6
25°	3590.9	3576.2	3511.1	3488.0	3425.0	3448.1	3513.2	3498.5	3448.1	3212.9	2931.5
27.5°	3891.1	3840.7	3853.3	3748.3	3687.4	3752.5	3830.2	3903.7	3760.9	3452.3	3053.3
30°	4103.2	4050.7	4046.5	4042.3	4027.6	4103.2	4193.5	4260.7	4145.2	3691.6	3254.9
32.5°	4208.2	4220.8	4256.5	4243.9	4372.0	4527.4	4621.9	4718.5	4573.6	4082.2	3521.6
35°	4487.5	4407.7	4487.5	4495.9	4628.2	4957.9	5077.6	5308.6	5272.9	4634.5	3847.0
37.5°	4651.3	4645.0	4655.5	4735.3	4863.4	5270.8	5440.9	5619.4	5552.2	4966.3	4252.3
40°	4922.2	4939.0	4936.9	4997.8	5138.5	5506.0	5575.3	5720.2	5726.5	5426.2	4848.7
42.5°	5356.9	5289.7	5245.6	5308.6	5506.0	5709.7	5848.3	5818.9	6026.7	5984.8	5615.2
45°	5747.5	5787.4	5722.3	5827.3	5898.7	6007.8	6003.6	6066.6	6331.2	6530.7	6192.6
47.5°	6112.8	6138.0	6169.5	6240.9	6396.3	6413.1	6377.4	6350.1	6715.5	6921.3	6639.9
50°	6331.2	6354.3	6501.3	6629.4	6919.2	6957.0	6978.0	6908.7	7156.5	7179.6	7062.0
52.5°	6272.4	6297.6	6503.4	6925.5	7387.5	7734.0	7671.0	7553.4	7538.7	7629.0	7452.6
55°	5751.7	5728.6	6012.0	6669.3	7534.5	8366.1	8374.5	8250.6	8013.3	7952.4	7393.8
56°	5308.6	5218.3	5579.5	6373.2	7345.5	8311.5	8405.9	8273.7	8051.1	7778.1	7030.5
57.5°	4348.9	4435.0	4794.1	5451.4	6692.4	7918.8	7973.4	7941.9	7773.9	7316.1	6186.3
60°	2398.1	2549.3	2866.4	3670.6	4764.7	6077.1	6121.2	6377.4	6408.9	5602.6	4256.5
62.5°	1018.5	1001.7	1331.3	1923.5	2713.1	3668.5	3750.4	4012.9	4061.2	3229.7	2135.6
65°	413.7	436.8	602.7	968.1	1434.2	1671.5	1787.0	1873.1	2032.7	1333.4	787.5
67.5°	273.0	270.9	354.9	552.3	772.8	745.5	745.5	787.5	728.7	543.9	340.2
70°	195.3	201.6	254.1	382.2	480.9	357.0	342.3	327.6	371.7	359.1	275.1
72.5°	128.1	136.5	170.1	228.9	249.9	195.3	195.3	235.2	306.6	289.8	224.7
75°	84.0	86.1	105.0	132.3	123.9	100.8	111.3	157.5	222.6	214.2	159.6
77.5°	56.7	58.8	71.4	86.1	69.3	56.7	60.9	79.8	109.2	109.2	84.0
80°	21.0	23.1	29.4	27.3	31.5	39.9	44.1	54.6	65.1	65.1	56.7
82.5°	0.0	2.1	6.3	14.7	23.1	31.5	35.7	42.0	48.3	54.6	52.5
85°	0.0	2.1	6.3	10.5	16.8	18.9	21.0	14.7	12.6	12.6	10.5
87.5°	0.0	0.0	2.1	2.1	2.1	2.1	2.1	2.1	4.2	2.1	2.1
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°	2202.8	2202.8	2202.8	2202.8	2202.8	2202.8	2202.8	2202.8	2202.8	2202.8	2202.8
2.5°	2202.8	2200.7	2200.7	2194.4	2207.0	2200.7	2204.9	2202.8	2175.5	2196.5	2181.8
5°	2225.9	2240.6	2217.5	2213.3	2196.5	2202.8	2202.8	2181.8	2200.7	2198.6	2194.4
7.5°	2284.7	2259.5	2234.3	2209.1	2204.9	2198.6	2175.5	2167.1	2181.8	2165.0	2190.2
10°	2309.9	2314.1	2276.3	2242.7	2211.2	2167.1	2135.6	2116.7	2093.6	2118.8	2133.5
12.5°	2425.4	2383.4	2318.3	2265.8	2158.7	2114.6	2083.1	2074.7	2114.6	2123.0	2108.3
15°	2465.3	2459.0	2375.0	2257.4	2146.1	2093.6	2099.9	2083.1	2087.3	2066.3	2070.5
17.5°	2547.2	2475.8	2377.1	2230.1	2144.0	2131.4	2093.6	2026.4	1988.6	1971.8	1986.5
20°	2637.5	2568.2	2425.4	2240.6	2162.9	2129.3	2005.4	1923.5	1845.8	1803.8	1805.9
22.5°	2717.3	2631.2	2404.4	2244.8	2179.7	2041.1	1892.0	1730.3	1633.7	1568.6	1570.7
25°	2813.9	2692.1	2412.8	2253.2	2135.6	1900.4	1686.2	1528.7	1413.2	1369.1	1383.8
27.5°	2868.5	2729.9	2459.0	2272.1	2020.1	1700.9	1469.9	1322.9	1255.7	1234.7	1232.6
30°	3032.3	2813.9	2515.7	2234.3	1826.9	1486.7	1272.5	1182.3	1117.2	1098.3	1102.5
32.5°	3275.9	2967.2	2589.2	2135.6	1629.5	1295.6	1144.5	1077.3	1016.4	980.7	976.5
35°	3479.6	3229.7	2666.9	1982.3	1400.6	1148.7	1054.2	970.2	877.8	837.9	827.4
37.5°	3868.0	3525.8	2650.1	1751.3	1182.3	1039.5	957.6	854.7	774.9	720.3	714.0
40°	4384.6	3872.2	2568.2	1469.9	1020.6	942.9	854.7	756.0	657.3	611.1	606.9
42.5°	5012.5	4296.4	2419.1	1184.4	858.9	846.3	766.5	653.1	564.9	531.3	533.4
45°	5522.8	4659.7	2267.9	951.3	739.2	751.8	682.5	575.4	514.5	487.2	487.2
47.5°	5976.4	4905.4	2104.1	785.4	627.9	657.3	596.4	533.4	480.9	459.9	455.7
50°	6413.1	5155.3	1940.3	636.3	535.5	564.9	558.6	508.2	466.2	441.0	443.1
52.5°	6686.1	5195.2	1732.4	520.8	468.3	501.9	522.9	476.7	430.5	415.8	411.6
55°	6352.2	4680.7	1343.9	428.4	396.9	441.0	480.9	428.4	392.7	367.5	365.4
56°	5902.9	4185.1	1123.5	394.8	375.9	424.2	466.2	409.5	369.6	354.9	344.4
57.5°	4997.8	3425.0	829.5	350.7	348.6	394.8	443.1	390.6	344.4	331.8	331.8
60°	3116.3	1927.7	501.9	294.0	302.4	350.7	399.0	348.6	306.6	306.6	312.9
62.5°	1419.5	802.2	304.5	249.9	260.4	302.4	354.9	315.0	291.9	315.0	319.2
65°	483.0	346.5	220.5	199.5	205.8	249.9	304.5	319.2	317.1	331.8	340.2
67.5°	270.9	222.6	184.8	165.9	161.7	184.8	249.9	319.2	306.6	300.3	304.5
70°	228.9	189.0	163.8	147.0	140.7	149.1	193.2	241.5	216.3	210.0	205.8
72.5°	184.8	157.5	142.8	132.3	113.4	96.6	88.2	92.4	102.9	109.2	119.7
75°	130.2	119.7	119.7	107.1	81.9	60.9	48.3	39.9	27.3	18.9	21.0
77.5°	73.5	73.5	75.6	65.1	52.5	39.9	29.4	21.0	10.5	4.2	2.1
80°	50.4	54.6	58.8	52.5	44.1	35.7	25.2	14.7	6.3	0.0	0.0
82.5°	50.4	56.7	60.9	52.5	44.1	33.6	25.2	14.7	6.3	2.1	0.0
85°	10.5	12.6	14.7	16.8	25.2	25.2	18.9	12.6	6.3	2.1	0.0
87.5°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.1	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)