

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: P647566

Luminaire Tested: **GALN-SA7D-835-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647566  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-835-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27903 lumens  
Efficiency: N/A  
Efficacy: 64.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B3 - U0 - G1

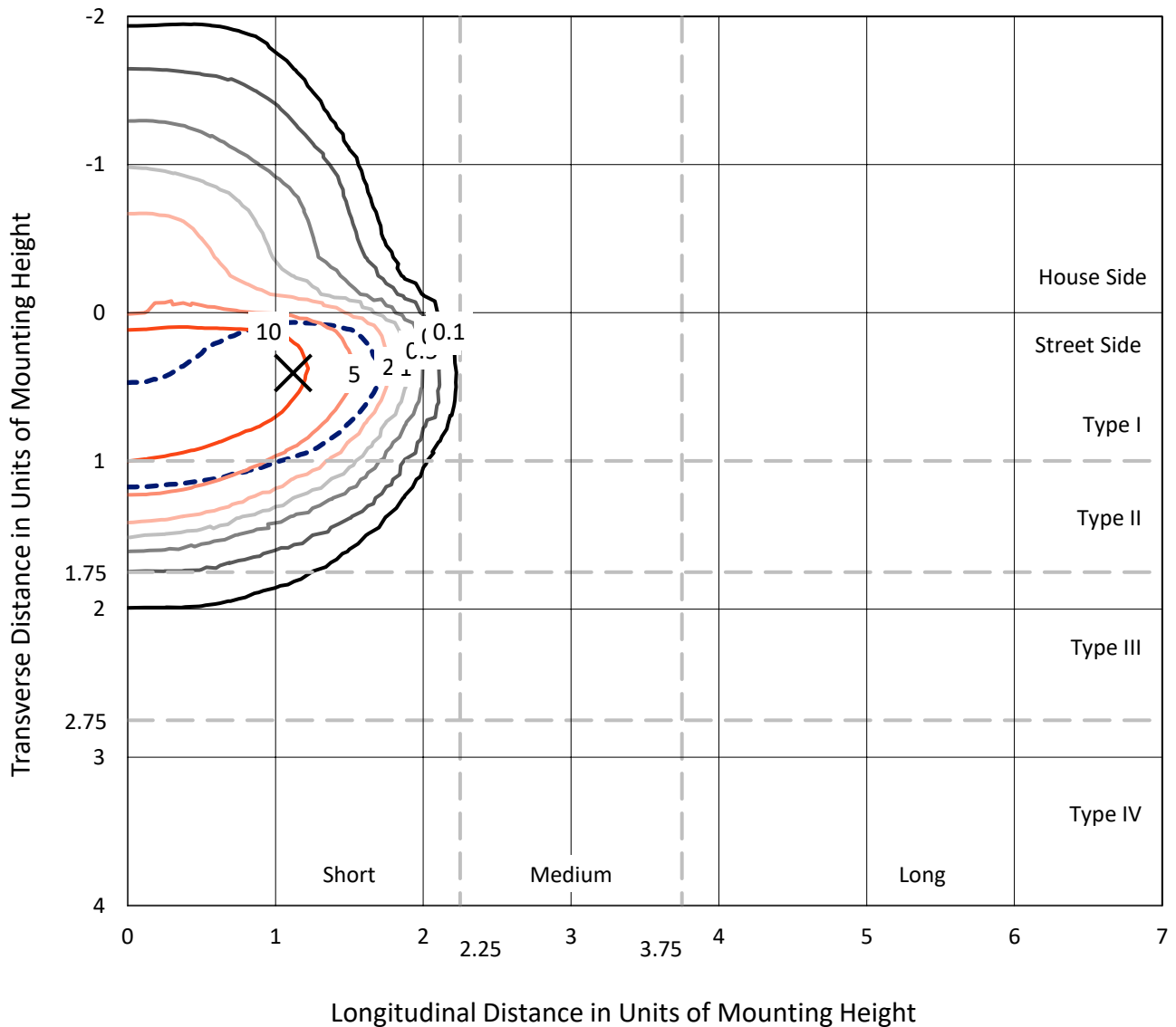
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

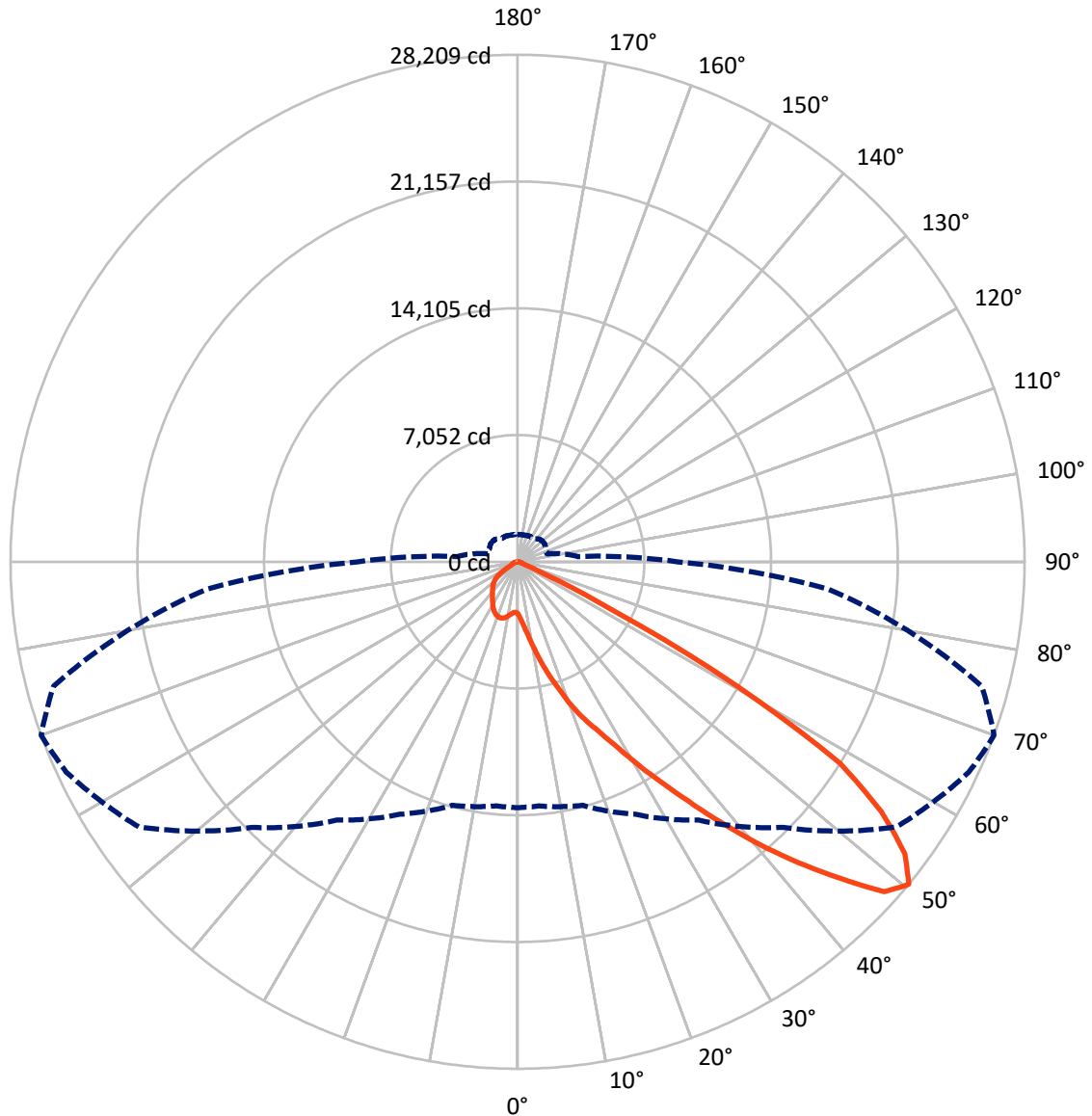
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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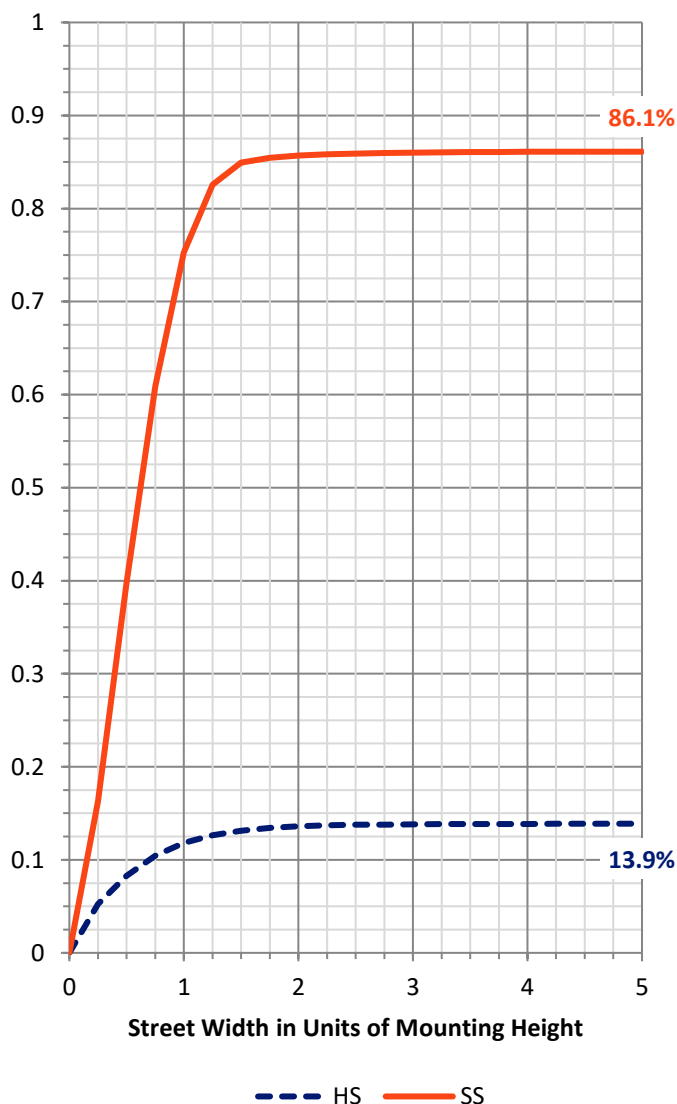
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3896.9	0.0	3896.9
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	24006.2	0.0	24006.2
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	27903.0	0.0	27903.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	375.8	1.3
10°-20°	1625.7	5.8
20°-30°	3410.5	12.2
30°-40°	5878.5	21.1
40°-50°	8591.4	30.8
50°-60°	6691.3	24.0
60°-70°	1133.7	4.1
70°-80°	155.8	0.6
80°-90°	40.4	0.1
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°	27903.0	100.0
0°-180°	27903.0	100.0

**Coefficient of Utilization**



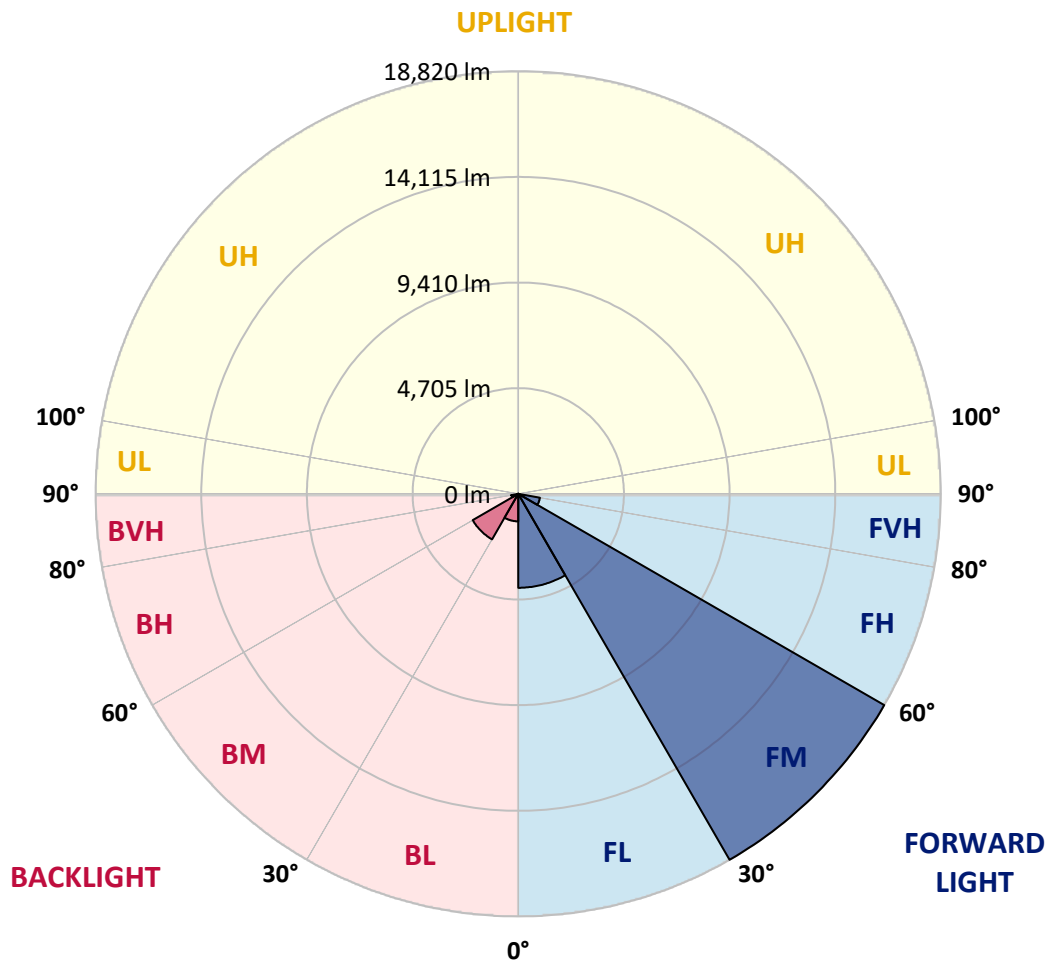
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4185.8	15.0			
FM (30°-60°)	18820.1	67.4			
FH (60°-80°)	981.6	3.5			G1/1800
FVH (80°-90°)	18.7	0.1			G1/100
BL (0°-30°)	1226.2	4.4	B3/2500		
BM (30°-60°)	2341.1	8.4	B2/2500		
BH (60°-80°)	307.8	1.1	B1/500		G1/500
BVH (80°-90°)	21.7	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 I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2890.2	2890.2	2890.2	2890.2	2890.2	2890.2	2890.2	2890.2	2890.2	2890.2	2890.2
2.5°	3784.8	3757.2	3697.6	3587.5	3541.7	3431.6	3367.3	3243.4	3165.4	3078.3	2982.0
5°	5330.8	5188.6	5101.4	4977.5	4615.2	4390.4	4018.7	3702.2	3555.4	3394.9	3174.6
7.5°	6927.3	6835.6	6716.3	6450.2	6202.5	5734.5	5096.9	4399.5	4101.4	3826.1	3390.2
10°	8248.5	7991.6	7977.9	7780.6	7509.9	6950.2	6184.1	5317.0	4784.9	4381.2	3697.6
12.5°	9170.7	8936.7	9042.2	9019.2	8766.9	8253.1	7367.7	6220.8	5665.7	5037.2	4014.1
15°	10010.2	9913.9	9881.7	9854.2	9753.3	9372.5	8578.9	7321.8	6519.0	5762.0	4372.0
17.5°	10831.4	10583.7	10702.9	10725.8	10716.7	10372.6	9629.4	8367.8	7422.8	6528.2	4748.2
20°	11560.8	11583.7	11423.2	11391.1	11363.5	11349.7	10624.9	9404.6	8533.0	7331.0	5239.1
22.5°	12496.7	12336.1	12478.4	12386.6	12207.7	12097.6	11542.4	10322.1	9496.4	8299.0	5739.1
25°	13602.3	13730.8	13395.9	13359.2	13161.9	12781.1	12281.0	11349.7	10423.1	9198.2	6280.4
27.5°	14964.9	14740.1	14652.8	14451.0	14093.1	13932.6	13345.4	12409.5	11542.4	10143.2	6803.4
30°	16134.7	16075.0	15639.2	15400.7	15088.6	15084.1	14262.9	13845.4	13001.3	11625.0	7523.7
32.5°	17088.9	16827.4	16666.9	16501.6	16249.4	16318.2	15625.5	15405.2	14556.5	13001.3	8372.4
35°	17726.6	17538.5	17442.1	17189.8	17116.4	17423.8	17134.8	17043.0	16345.7	14937.3	9367.9
37.5°	17928.4	17988.1	17969.7	17653.1	17809.1	18639.5	19011.1	18772.5	18405.5	16978.8	10446.0
40°	18107.3	18148.6	18056.8	18428.5	18873.4	19818.5	21162.7	20768.1	20630.6	19047.8	11946.2
42.5°	18208.3	18176.2	18176.2	18818.4	19492.8	21392.0	23240.8	22979.4	22873.9	21249.8	13680.3
45°	17772.5	17460.5	17795.4	18667.0	20025.0	22167.4	24901.6	25264.0	25112.6	23869.4	15708.0
47.5°	16143.8	16336.5	16524.6	17689.8	19378.1	21928.9	25920.0	27154.1	27434.0	26071.5	17038.4
50°	13680.3	13639.0	14028.9	15497.0	17547.7	20901.2	25722.8	27700.0	28209.3	26732.1	17318.2
52.5°	9950.5	10253.3	10675.4	12134.2	14565.7	18240.4	23176.6	26291.7	26970.6	25920.0	17134.8
55°	5794.2	5459.2	6408.9	7642.9	9936.8	13758.2	19593.7	23305.1	24562.1	24442.8	16208.0
57.5°	2321.4	2247.9	2573.6	3468.2	5184.0	8528.4	14249.1	19148.7	21162.7	22387.6	14244.6
60°	1018.4	995.5	1169.9	1413.0	2119.5	3931.6	7794.4	11909.4	14010.6	15643.8	9803.7
62.5°	734.0	724.8	812.0	899.2	1119.4	1711.2	3275.5	4798.6	5982.3	7225.5	4390.4
65°	591.8	614.7	674.4	720.3	825.8	949.6	1156.1	1335.0	1637.8	1697.4	968.0
67.5°	481.7	500.0	555.1	605.6	623.9	513.8	532.1	467.9	467.9	417.5	334.9
70°	353.2	357.8	422.0	481.7	385.4	206.5	362.5	362.5	325.7	311.9	284.5
72.5°	261.5	266.1	316.6	298.2	151.4	128.5	266.1	293.6	266.1	252.3	229.4
75°	192.7	197.2	165.1	68.8	64.2	82.6	156.0	201.9	192.7	188.1	174.3
77.5°	36.7	27.6	22.9	32.1	45.9	68.8	100.9	123.9	128.5	137.7	128.5
80°	4.6	4.6	13.8	27.6	50.4	73.4	105.5	119.3	123.9	128.5	119.3
82.5°	0.0	4.6	13.8	27.6	50.4	68.8	91.8	105.5	114.7	119.3	114.7
85°	0.0	4.6	9.2	22.9	41.3	50.4	45.9	32.1	27.6	32.1	22.9
87.5°	0.0	0.0	4.6	4.6	9.2	9.2	9.2	9.2	9.2	9.2	9.2
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°	2890.2	2890.2	2890.2	2890.2	2890.2	2890.2	2890.2	2890.2	2890.2	2890.2	2890.2
2.5°	2926.9	2908.5	2844.3	2775.5	2715.8	2743.4	2715.8	2692.9	2702.1	2692.9	2683.7
5°	3087.4	3004.9	2867.3	2807.6	2757.2	2752.6	2738.8	2734.2	2738.8	2738.8	2697.5
7.5°	3238.9	3105.8	2959.0	2894.8	2835.2	2839.7	2807.6	2807.6	2803.1	2780.1	2771.0
10°	3468.2	3289.3	3101.2	2986.5	2913.2	2899.4	2867.3	2835.2	2835.2	2835.2	2789.3
12.5°	3720.6	3495.8	3238.9	3105.8	3018.6	2949.9	2899.4	2890.2	2839.7	2830.5	2807.6
15°	3940.8	3656.3	3330.6	3147.1	3037.0	2945.3	2867.3	2816.8	2793.8	2780.1	2761.7
17.5°	4156.4	3793.9	3381.1	3147.1	3027.9	2922.3	2839.7	2793.8	2738.8	2748.0	2711.3
20°	4445.4	3940.8	3394.9	3087.4	2940.6	2839.7	2729.6	2706.7	2674.6	2647.1	2656.2
22.5°	4725.2	4046.3	3353.5	3014.1	2803.1	2683.7	2628.7	2601.2	2587.4	2564.5	2532.4
25°	4977.5	4160.9	3289.3	2881.0	2656.2	2569.1	2518.6	2514.0	2481.9	2481.9	2422.3
27.5°	5234.5	4202.3	3179.2	2725.1	2527.8	2477.3	2454.4	2445.2	2431.4	2399.3	2358.0
30°	5528.1	4216.0	3018.6	2564.5	2413.0	2358.0	2390.2	2413.0	2353.5	2293.8	2312.2
32.5°	5771.3	4183.9	2826.0	2413.0	2330.5	2303.0	2367.2	2390.2	2321.4	2257.1	2225.0
35°	6064.8	4105.9	2637.8	2293.8	2247.9	2303.0	2358.0	2358.0	2220.4	2142.4	2124.0
37.5°	6509.9	4018.7	2463.6	2192.9	2160.8	2275.5	2348.8	2298.4	2082.8	1986.5	1963.5
40°	6986.9	3963.7	2293.8	2091.9	2114.9	2229.6	2270.9	2114.9	1894.7	1835.0	1816.7
42.5°	7679.7	3853.6	2142.4	2004.8	2073.6	2165.4	2165.4	1885.5	1802.9	1770.8	1766.2
45°	8542.1	3775.6	2009.4	1931.4	2014.0	2036.9	1963.5	1766.2	1706.6	1697.4	1702.0
47.5°	8964.2	3624.2	1871.8	1844.2	1903.9	1908.5	1715.8	1669.9	1619.4	1605.7	1596.5
50°	8900.0	3353.5	1692.8	1729.6	1812.1	1766.2	1564.4	1573.5	1527.7	1523.1	1500.1
52.5°	8450.4	2926.9	1513.9	1601.1	1692.8	1559.8	1440.5	1431.3	1431.3	1371.7	1348.8
55°	7491.6	2358.0	1298.3	1408.4	1518.5	1312.1	1280.0	1270.8	1247.9	1192.7	1179.0
57.5°	5931.8	1729.6	977.2	1096.4	1289.1	1114.8	1110.2	1069.0	1009.3	968.0	968.0
60°	3527.9	995.5	614.7	669.8	853.3	903.7	1004.7	986.3	885.4	821.2	802.8
62.5°	1610.2	513.8	389.9	399.1	458.8	587.2	789.1	912.9	770.7	660.6	651.5
65°	541.4	380.8	321.1	307.4	316.6	353.2	472.5	646.8	614.7	509.3	490.9
67.5°	330.3	339.5	302.8	279.8	279.8	275.2	270.7	293.6	362.5	353.2	357.8
70°	284.5	311.9	279.8	252.3	243.1	229.4	192.7	160.6	137.7	160.6	169.8
72.5°	229.4	247.7	238.6	215.6	192.7	174.3	137.7	105.5	78.0	68.8	68.8
75°	169.8	183.5	192.7	165.1	146.8	123.9	100.9	68.8	41.3	27.6	27.6
77.5°	123.9	137.7	142.2	128.5	110.1	87.1	64.2	45.9	22.9	9.2	9.2
80°	105.5	123.9	137.7	128.5	114.7	82.6	59.7	32.1	18.3	4.6	4.6
82.5°	100.9	123.9	137.7	123.9	110.1	78.0	59.7	36.7	13.8	4.6	4.6
85°	22.9	32.1	41.3	50.4	59.7	59.7	45.9	27.6	13.8	4.6	4.6
87.5°	9.2	9.2	9.2	9.2	9.2	9.2	9.2	9.2	4.6	4.6	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)