

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: P647538

Luminaire Tested: **GALN-SA7D-835-U-AFL-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P647538  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-28)  
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-AFL-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 38070.2 lumens  
Efficiency: N/A  
Efficacy: 87.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

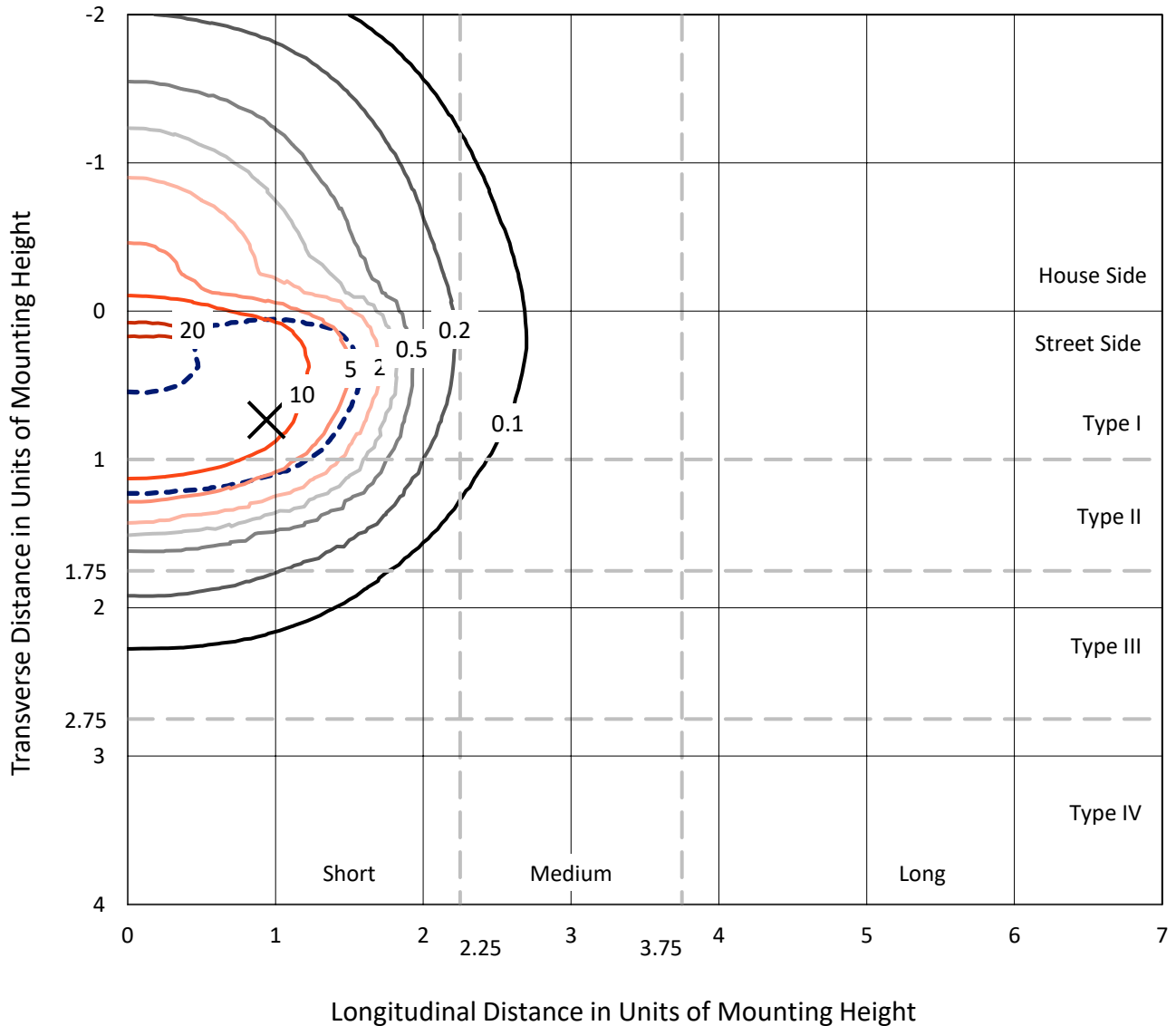
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

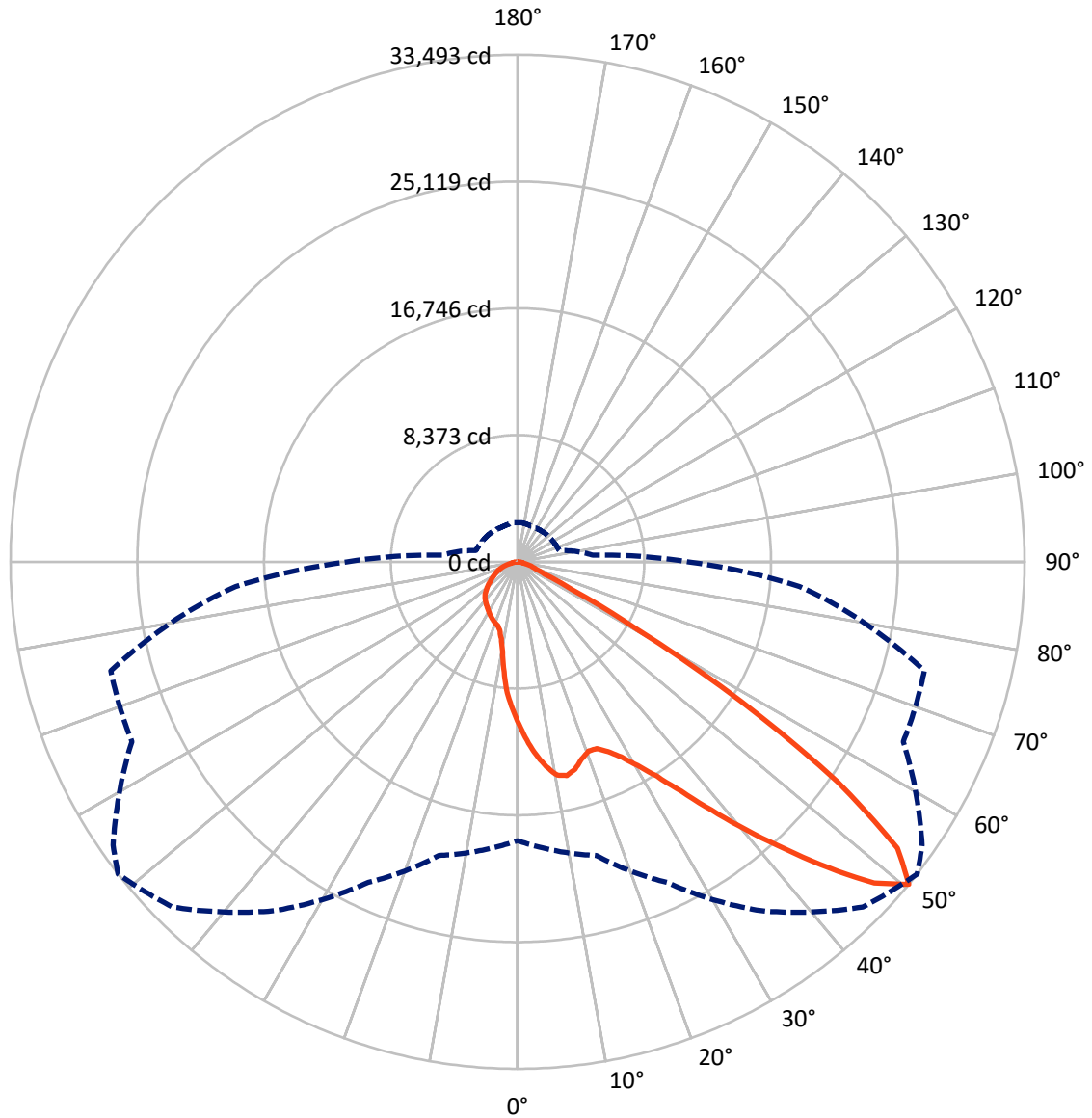
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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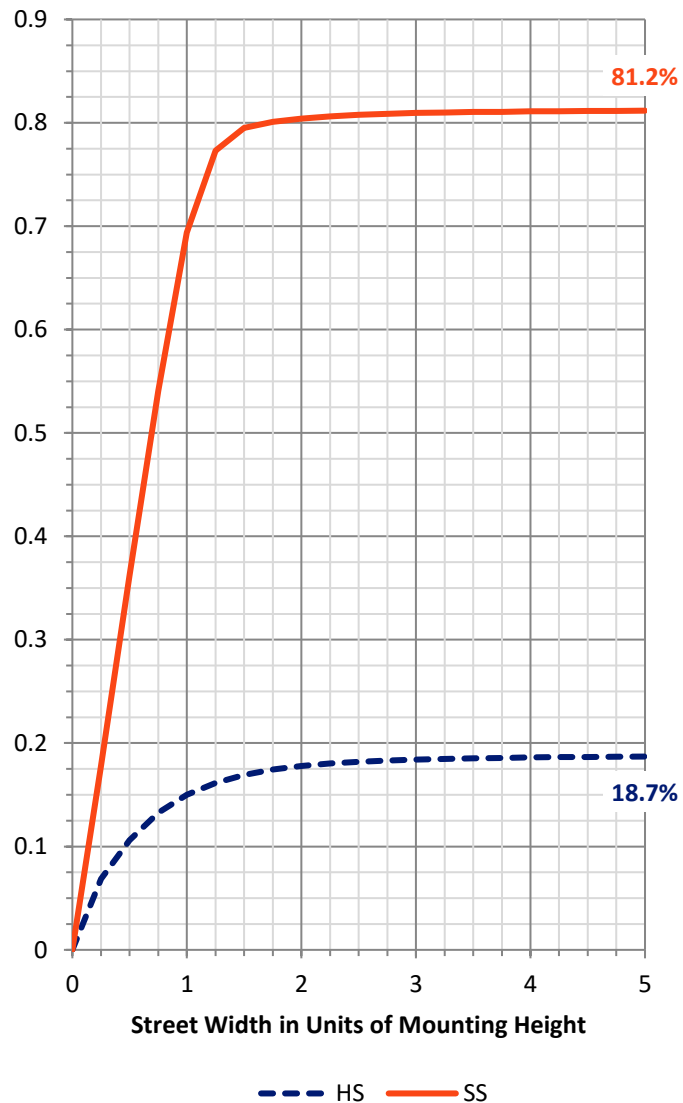
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	7156.3	0.0	7156.3
	% Fixture	18.8	0.0	18.8
<b>Street Side</b>	Lumens	30913.9	0.0	30913.9
	% Fixture	81.2	0.0	81.2
<b>Total</b>	Lumens	38070.2	0.0	38070.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	989.1	2.6
10°-20°	2651.0	7.0
20°-30°	4465.6	11.7
30°-40°	7493.6	19.7
40°-50°	11463.4	30.1
50°-60°	8357.8	22.0
60°-70°	1860.0	4.9
70°-80°	670.9	1.8
80°-90°	118.8	0.3
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°	38070.2	100.0
0°-180°	38070.2	100.0

**Coefficient of Utilization**



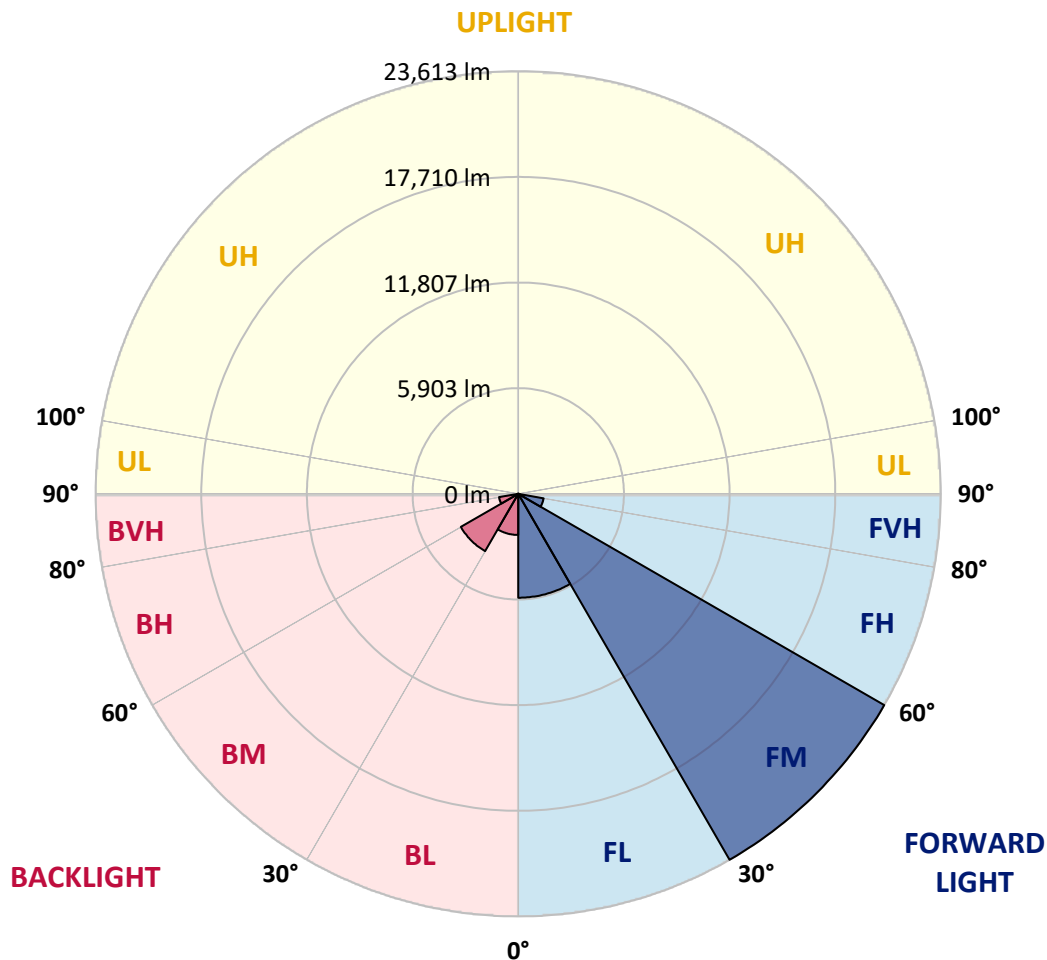
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5807.0	15.3			
FM	(30°-60°)	23613.1	62.0			
FH	(60°-80°)	1440.6	3.8			G1/1800
FVH	(80°-90°)	53.2	0.1			G1/100
BL	(0°-30°)	2298.7	6.0	B3/2500		
BM	(30°-60°)	3701.7	9.7	B3/5000		
BH	(60°-80°)	1090.3	2.9	B3/2500		G3/2500
BVH	(80°-90°)	65.5	0.2			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	10731.4	10731.4	10731.4	10731.4	10731.4	10731.4	10731.4	10731.4	10731.4	10731.4	10731.4
2.5°	12635.4	12392.2	12419.8	12245.4	12057.3	12002.2	11809.5	11626.1	11488.4	11194.8	10924.1
5°	13809.9	13736.5	13626.4	13488.7	13346.5	12997.9	12800.6	12571.1	12066.5	11612.3	11162.7
7.5°	13979.7	13965.9	14025.6	14025.6	14076.1	13943.0	13663.1	13502.5	12965.7	12227.1	11392.0
10°	12786.8	12828.1	13117.1	13493.4	14016.4	14378.9	14333.0	14291.7	13704.4	12695.0	11662.7
12.5°	11837.1	11745.3	11915.1	12236.3	13020.8	13897.1	14488.9	14493.6	14342.1	13442.9	11860.0
15°	11300.3	11364.5	11410.4	11561.8	12153.6	13167.6	14209.1	14516.5	15181.7	13970.5	12172.0
17.5°	11644.4	11428.7	11419.6	11456.3	11759.1	12520.7	13690.7	14218.3	15640.6	14649.5	12557.4
20°	12094.0	12089.4	11961.0	11915.1	11910.5	12589.5	13351.1	14066.8	15883.7	15530.4	12947.4
22.5°	12883.2	12883.2	12672.1	12571.1	12355.5	12910.7	13397.0	13883.4	16287.5	16136.1	13135.5
25°	14204.5	13988.8	13626.4	13378.7	13254.8	13452.1	13883.4	14319.2	16640.7	16778.4	13525.5
27.5°	15424.9	15085.4	14906.4	14479.8	14314.6	14199.9	14594.5	15034.9	17053.7	17778.6	13736.5
30°	16810.5	16750.9	16429.7	15879.2	15470.8	15259.7	15622.2	16058.1	17810.7	18801.7	14222.9
32.5°	19288.0	18746.7	18310.8	17636.4	16971.1	16521.5	16879.3	17168.4	19067.8	19870.7	14755.1
35°	21962.8	21788.5	21036.1	19820.2	18801.7	18397.9	18609.0	18824.7	20531.4	21504.0	15649.7
37.5°	24591.8	24353.2	23733.8	22710.7	21471.9	20650.7	20802.0	21054.4	22173.9	23706.3	16741.6
40°	26482.0	26188.4	25876.4	25725.0	24495.5	23371.4	23284.1	23348.4	24394.5	25770.9	17952.9
42.5°	26619.7	26982.1	27078.5	27688.7	27399.6	26477.5	25940.6	25954.4	26514.2	27812.6	19177.9
45°	26330.6	25995.7	26706.9	28372.3	29326.6	29757.8	28854.0	28739.3	27826.3	28996.3	19788.1
47.5°	23297.9	23389.7	24591.8	27225.3	29982.7	31909.7	31698.6	31317.8	28528.3	28954.9	19691.7
50°	18416.3	18971.5	20086.3	23366.8	28147.5	32249.2	33492.5	32611.6	28110.8	27817.2	18709.9
52.5°	12263.7	12493.2	13227.2	17462.0	22632.7	28826.5	31427.9	31629.8	27725.4	26326.0	17466.6
55°	5459.7	5441.4	6473.7	9121.0	14199.9	21935.3	25679.1	26908.7	26243.4	24807.4	16255.3
57.5°	2312.4	2390.3	2812.5	3941.1	6983.0	13236.5	17397.8	18476.0	20182.7	20370.8	12470.2
60°	1564.5	1573.7	1688.4	1972.8	2922.5	6216.8	9125.6	10419.4	11639.8	11557.2	6616.0
62.5°	1229.6	1261.7	1348.9	1463.6	1734.3	2821.6	4083.3	4803.6	4881.6	4106.3	2509.7
65°	1050.6	1055.2	1142.4	1238.8	1358.0	1642.5	1968.2	2004.9	2027.9	1954.5	1844.4
67.5°	867.2	876.3	945.2	1055.2	1165.3	1257.1	1348.9	1394.8	1500.3	1706.7	1679.2
70°	688.2	702.0	761.6	853.4	954.3	1009.4	1124.1	1165.3	1261.7	1422.3	1486.5
72.5°	523.0	527.6	578.1	642.3	734.1	789.1	885.5	931.4	995.6	1133.2	1192.9
75°	376.2	390.0	426.7	458.8	472.5	509.3	601.0	651.5	743.2	802.9	807.5
77.5°	197.3	206.5	215.6	215.6	261.5	330.3	390.0	417.5	481.8	527.6	504.6
80°	78.0	82.6	105.5	142.2	183.5	238.6	279.8	293.6	348.7	376.2	390.0
82.5°	45.9	50.5	68.8	100.9	133.0	169.8	201.9	215.6	252.4	284.5	293.6
85°	22.9	27.6	41.3	64.2	87.1	105.5	100.9	96.4	96.4	91.8	96.4
87.5°	9.2	9.2	13.8	13.8	13.8	18.3	22.9	22.9	22.9	27.6	27.6
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°	10731.4	10731.4	10731.4	10731.4	10731.4	10731.4	10731.4	10731.4	10731.4	10731.4	10731.4
2.5°	10745.1	10561.7	10391.8	10079.9	9740.4	9644.0	9249.4	9107.2	9006.3	8887.0	8850.2
5°	10800.2	10557.0	10011.0	9382.5	8882.4	8240.1	7817.9	7363.8	7033.5	6950.8	6927.9
7.5°	10914.9	10497.4	9556.8	8607.1	7584.0	6712.3	6047.0	5689.1	5372.6	5354.2	5322.1
10°	11043.4	10318.5	9061.3	7570.2	6262.7	5455.2	5056.0	4900.0	4822.0	4803.6	4794.5
12.5°	11148.9	10281.7	8506.2	6560.8	5326.7	4840.3	4721.1	4707.3	4739.4	4748.6	4767.0
15°	11194.8	10134.9	7836.3	5657.0	4744.0	4565.0	4615.6	4670.6	4693.5	4753.2	4707.3
17.5°	11281.9	9946.8	7010.5	4941.3	4418.2	4450.3	4537.6	4601.8	4638.5	4679.8	4620.2
20°	11327.8	9777.1	6235.1	4514.6	4303.5	4363.2	4482.5	4532.9	4578.8	4597.2	4528.4
22.5°	11286.6	9428.3	5551.5	4170.5	4193.4	4271.4	4377.0	4432.0	4404.5	4331.1	4289.8
25°	11176.4	8937.5	4840.3	3950.3	4037.5	4175.1	4257.6	4216.4	4166.0	4124.6	4110.8
27.5°	11171.8	8336.4	4326.5	3748.4	3904.4	4092.5	4064.9	4028.3	4051.2	4019.1	3982.4
30°	11194.8	7753.7	3904.4	3633.7	3808.0	3899.8	3931.9	3895.2	3922.8	3863.1	3881.5
32.5°	11075.5	7184.8	3629.1	3500.6	3693.3	3688.8	3794.3	3821.8	3757.6	3633.7	3652.1
35°	11126.0	6726.0	3395.2	3441.1	3564.9	3564.9	3647.4	3615.3	3445.6	3372.2	3390.5
37.5°	11474.6	6276.4	3280.5	3358.4	3441.1	3477.7	3450.2	3312.6	3271.2	3271.2	3280.5
40°	11805.0	5891.0	3211.6	3340.0	3326.3	3349.3	3147.3	3161.1	3161.1	3165.7	3142.8
42.5°	12098.6	5629.5	3156.6	3230.0	3252.9	3133.6	3009.8	2996.0	3028.1	3023.5	3005.2
45°	12204.2	5413.9	3078.5	3106.1	3124.4	2927.2	2867.5	2840.0	2876.7	2890.4	2908.8
47.5°	11800.4	5234.9	2991.4	2936.3	2899.6	2771.2	2693.1	2642.7	2688.6	2766.6	2784.9
50°	11281.9	5000.9	2853.7	2748.3	2670.2	2615.1	2560.1	2509.7	2541.8	2596.8	2583.0
52.5°	10515.8	4633.9	2679.4	2569.3	2436.2	2450.0	2399.5	2372.0	2390.3	2390.3	2376.6
55°	9423.8	3808.0	2385.8	2307.7	2197.6	2234.4	2243.5	2206.8	2170.2	2202.3	2174.7
57.5°	6432.4	2688.6	2128.8	2128.8	2018.7	2069.2	2064.6	1977.5	1890.2	1899.4	1881.1
60°	3720.9	2142.6	1963.7	1945.3	1830.7	1871.9	1881.1	1821.4	1688.4	1697.5	1679.2
62.5°	2115.0	1830.7	1715.9	1688.4	1665.4	1702.2	1702.2	1624.2	1509.5	1518.6	1500.3
65°	1798.5	1697.5	1532.4	1527.8	1518.6	1527.8	1491.1	1408.5	1307.6	1266.3	1270.9
67.5°	1633.3	1569.1	1408.5	1367.2	1339.7	1335.1	1266.3	1188.3	1142.4	1105.7	1101.1
70°	1431.5	1381.0	1261.7	1206.7	1179.1	1114.9	1046.1	995.6	931.4	913.0	931.4
72.5°	1133.2	1128.6	1082.8	1023.1	963.5	913.0	853.4	784.6	724.9	711.1	679.0
75°	784.6	793.7	802.9	793.7	743.2	679.0	610.2	555.1	481.8	440.4	431.3
77.5°	513.9	527.6	541.4	523.0	490.9	431.3	385.4	316.6	261.5	229.4	224.8
80°	376.2	394.6	403.7	390.0	353.3	307.4	256.9	201.9	160.6	133.0	133.0
82.5°	289.1	307.4	316.6	293.6	256.9	220.3	183.5	142.2	110.1	87.1	82.6
85°	100.9	96.4	114.7	119.3	142.2	133.0	110.1	82.6	64.2	45.9	41.3
87.5°	27.6	27.6	32.1	32.1	27.6	22.9	22.9	22.9	18.3	13.8	13.8
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)