

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: P532550

Luminaire Tested: **GALN-SA7D-830-U-SL3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P532550  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA7D-830-U-SL3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 36223 lumens  
Efficiency: N/A  
Efficacy: 83.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B4 - U0 - G3

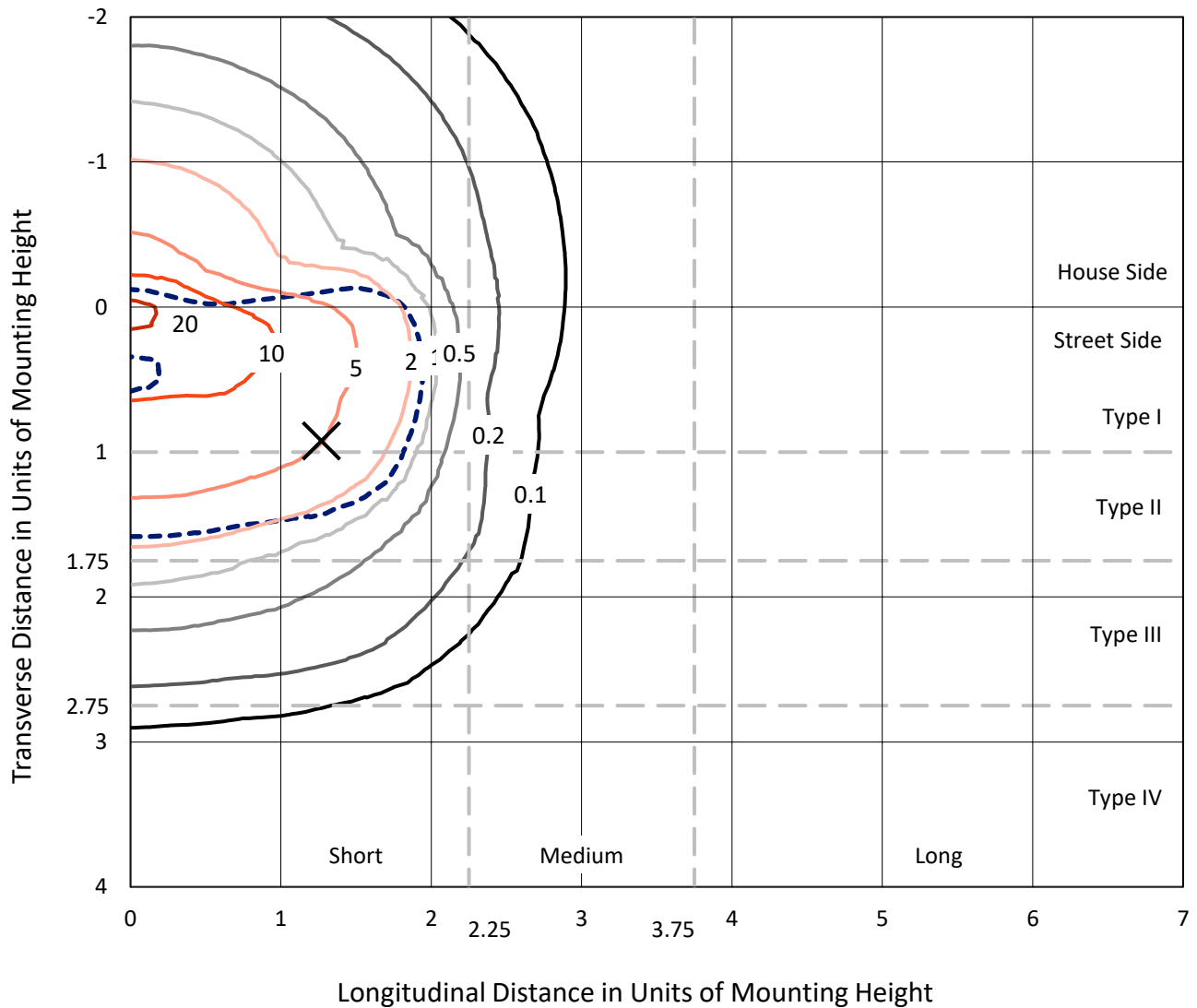
Input Watts (W): 433  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

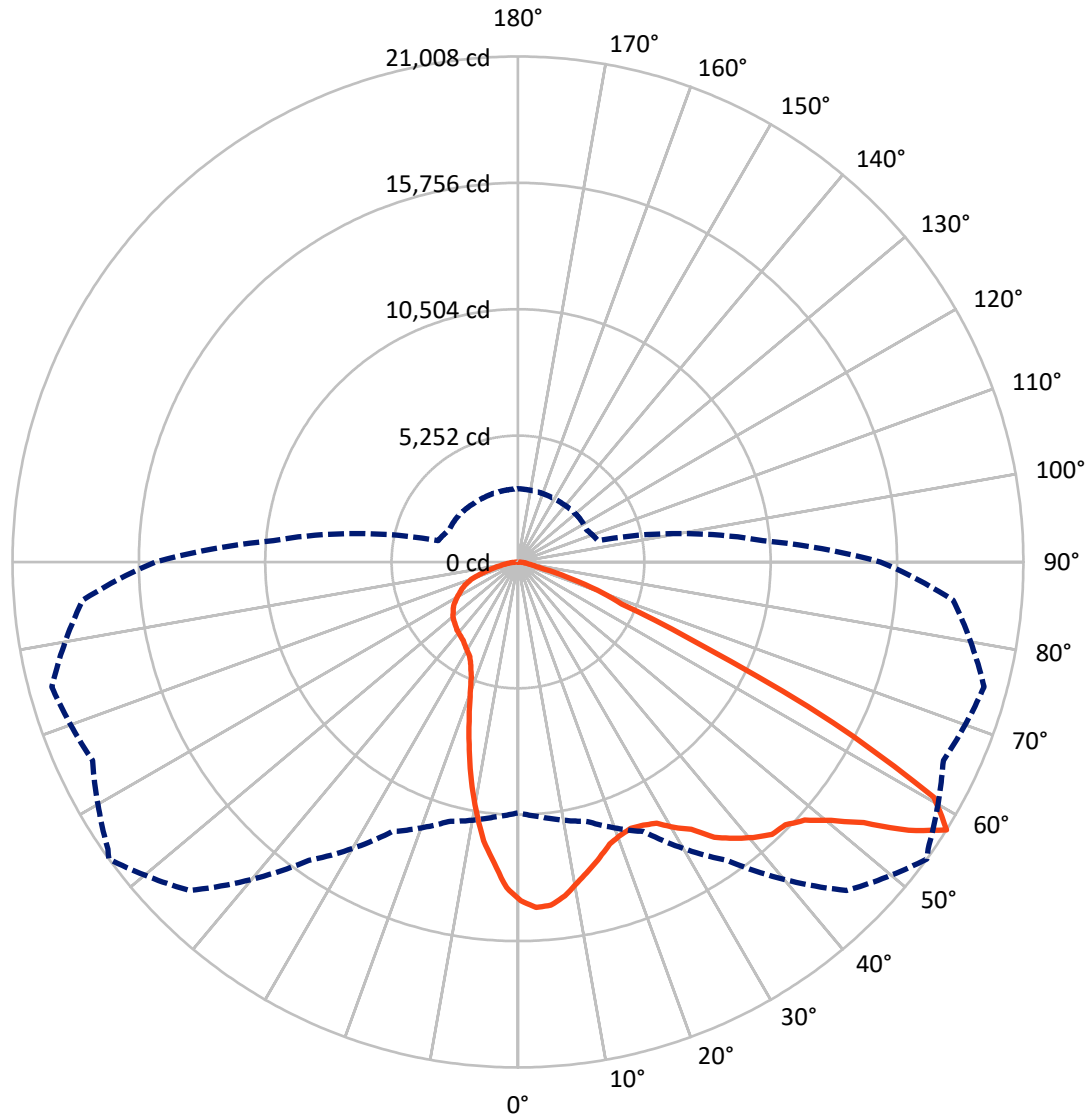
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 57.5-Deg Vertical

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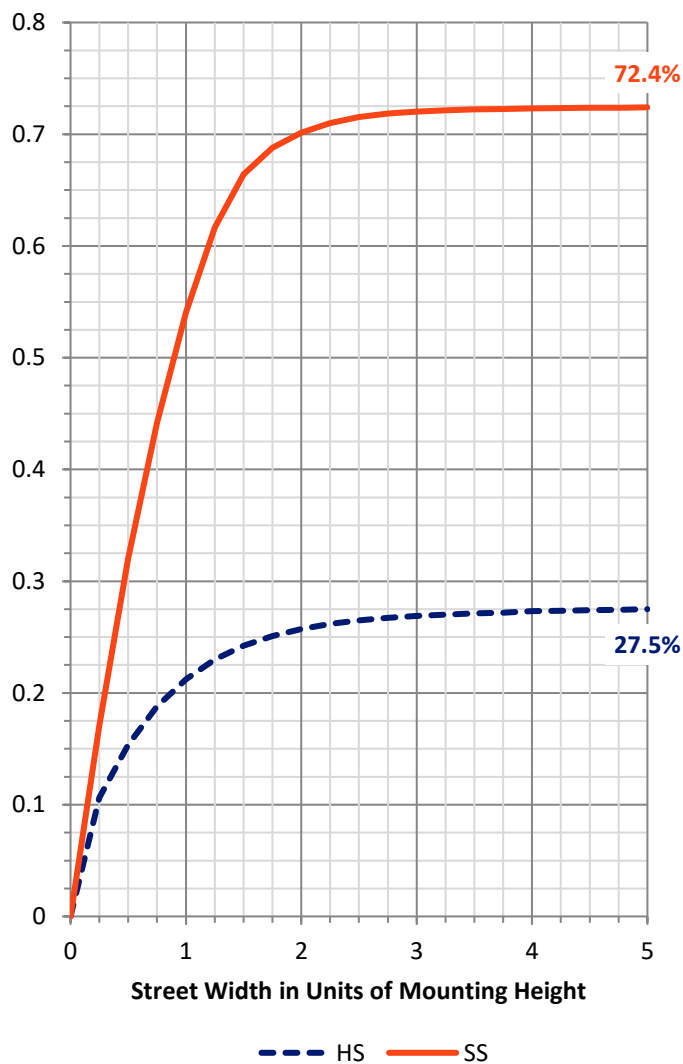
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	10021.3	0.0	10021.3
	% Fixture	27.7	0.0	27.7
<b>Street Side</b>	Lumens	26201.7	0.0	26201.7
	% Fixture	72.3	0.0	72.3
<b>Total</b>	Lumens	36223.0	0.0	36223.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1214.2	3.4
10°-20°	2811.4	7.8
20°-30°	3950.0	10.9
30°-40°	5522.1	15.2
40°-50°	7475.9	20.6
50°-60°	9106.0	25.1
60°-70°	4742.8	13.1
70°-80°	1215.3	3.4
80°-90°	185.4	0.5
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°	36223.0	100.0
0°-180°	36223.0	100.0

**Coefficient of Utilization**



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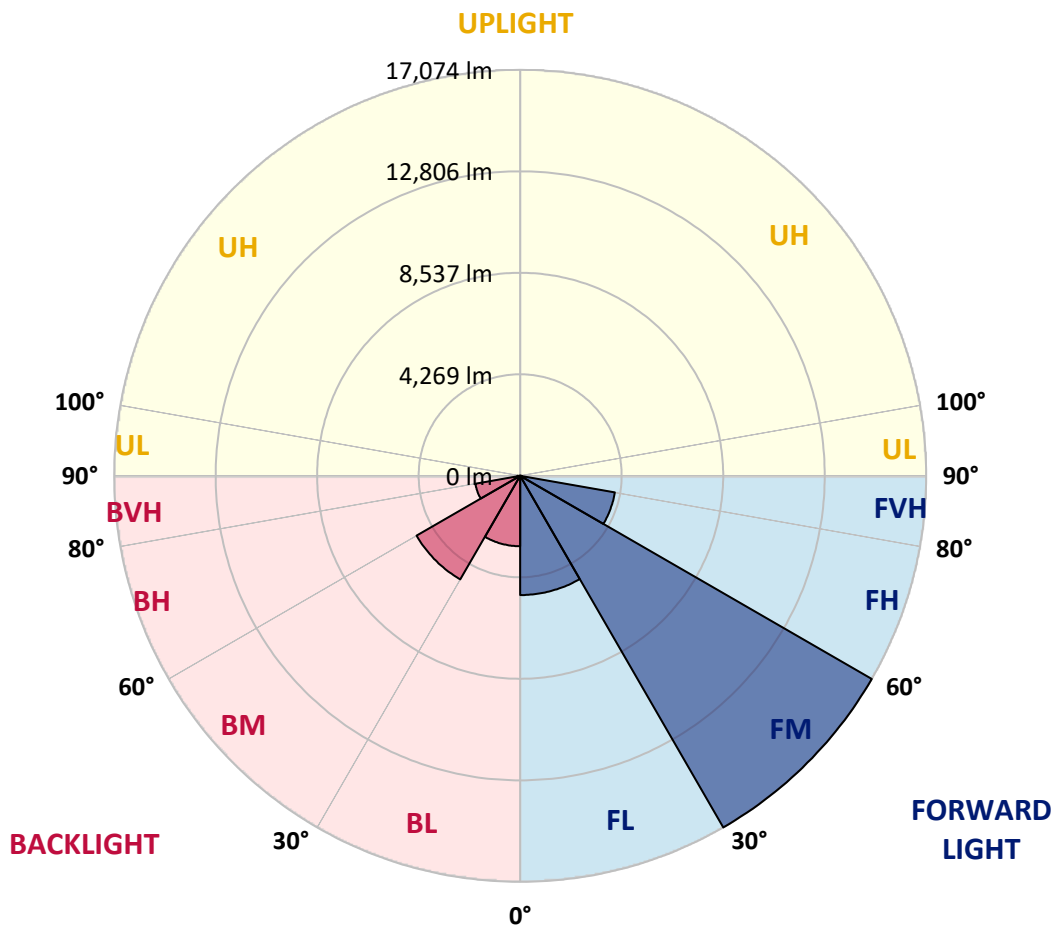
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5013.8	13.8			
FM (30°-60°)	17074.4	47.1			
FH (60°-80°)	4043.5	11.2			G2/5000
FVH (80°-90°)	70.0	0.2			G1/100
BL (0°-30°)	2961.8	8.2	B4/5000		
BM (30°-60°)	5029.6	13.9	B4/8500		
BH (60°-80°)	1914.6	5.3	B3/2500		G3/2500
BVH (80°-90°)	115.3	0.3			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B4-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	14079.5	14079.5	14079.5	14079.5	14079.5	14079.5	14079.5	14079.5	14079.5	14079.5	14079.5
2.5°	14479.9	14424.0	14433.3	14507.8	14414.7	14377.4	14377.4	14195.9	14209.8	14084.1	14051.5
5°	14144.6	14014.3	14102.7	14214.5	14233.1	14270.4	14330.9	14284.3	14154.0	14018.9	13800.1
7.5°	13269.3	13385.7	13418.3	13497.5	13665.1	13818.7	14009.6	13879.3	13874.6	13739.6	13609.2
10°	12501.1	12431.3	12608.2	12724.6	13004.0	13260.0	13553.3	13539.4	13609.2	13455.6	13232.1
12.5°	11737.5	11681.7	11765.5	12030.9	12422.0	12794.4	13143.6	13013.3	13385.7	13357.8	12878.2
15°	10927.4	10969.3	11090.4	11337.1	11849.3	12296.3	12738.6	12743.2	13073.8	13185.5	12543.0
17.5°	10359.4	10312.8	10466.5	10834.3	11290.6	11826.0	12328.8	12431.3	12938.8	13004.0	12440.6
20°	9935.7	10000.9	10201.1	10387.3	10913.4	11560.6	12128.6	12165.9	12910.8	13087.8	12277.6
22.5°	9833.3	9796.0	9861.2	10163.8	10596.8	11299.9	12021.6	12161.2	12906.2	13059.8	11970.3
25°	9726.2	9847.2	9842.6	10145.2	10461.8	11090.4	12110.0	12263.7	13152.9	13204.2	12012.2
27.5°	9968.3	9954.3	10084.7	10108.0	10499.1	11146.2	12296.3	12412.7	13562.7	13520.8	12044.8
30°	10210.4	10140.6	10219.7	10494.4	10676.0	11467.5	12808.4	12799.1	14093.4	14065.5	12147.3
32.5°	10508.4	10475.8	10527.0	10769.1	11076.4	11895.8	13241.4	13516.1	14633.5	14810.4	12501.1
35°	10564.3	10699.3	10820.3	11146.2	11583.9	12589.6	14056.2	14284.3	15257.4	15811.5	13176.2
37.5°	10918.1	10969.3	11253.3	11830.7	12231.1	13516.1	14573.0	14717.3	15825.4	16454.0	13888.6
40°	11295.2	11355.8	11784.1	12389.4	12938.8	14121.4	15057.2	15103.8	16007.0	16947.5	14354.2
42.5°	11807.4	11863.3	12286.9	13045.9	13781.5	14638.2	15485.5	15536.8	15993.0	17515.5	15094.5
45°	12338.2	12473.2	12971.4	13832.7	14493.8	15243.4	15583.3	15792.8	16123.4	18023.0	15695.1
47.5°	13083.1	13208.8	13618.5	14461.2	15234.1	15774.2	16034.9	16239.8	16435.4	18465.3	16081.5
50°	13874.6	13897.9	14396.1	15159.6	15727.7	16374.8	16877.7	16947.5	16845.1	18977.5	16738.0
52.5°	14456.6	14531.1	14917.5	15662.5	16509.8	17306.0	17995.1	18069.6	17869.4	19168.4	16961.5
55°	13492.8	13450.9	14079.5	15071.2	17036.0	18693.5	19694.5	19750.4	18614.3	19759.7	17692.4
57.5°	10429.2	10629.4	11164.9	12361.4	15136.4	19308.0	21007.5	20807.3	19508.3	20057.7	18158.0
60°	7579.8	7533.3	7891.8	8692.6	11407.0	16640.2	19862.1	20067.0	18777.3	18078.9	14973.4
62.5°	6173.7	6108.6	6136.5	6164.4	7361.0	11043.8	14703.4	14698.7	14461.2	12994.6	10098.7
65°	4935.3	5088.9	5102.9	5312.4	5466.0	6597.4	8520.3	8976.6	7817.3	6411.2	4651.3
67.5°	3720.1	3664.2	3850.4	4595.4	4884.0	4763.0	4651.3	4702.5	3342.9	2411.8	2272.1
70°	2192.9	2169.7	2393.1	3203.3	4022.7	3785.3	3505.9	3510.6	2295.4	1685.4	1876.3
72.5°	1201.2	1196.6	1243.1	1624.9	2286.1	2374.5	2104.5	2169.7	1368.8	1364.2	1466.6
75°	670.5	656.5	642.5	717.0	824.1	870.7	889.3	898.6	940.5	1052.2	1094.1
77.5°	246.8	237.5	237.5	274.7	349.2	437.7	554.1	563.4	665.8	763.6	805.5
80°	83.8	93.1	125.7	172.3	232.8	311.9	377.1	386.4	470.2	535.4	549.4
82.5°	51.2	55.9	83.8	121.1	167.6	218.8	279.4	284.0	349.2	391.1	409.7
85°	23.3	27.9	46.6	74.5	107.1	144.3	149.0	149.0	144.3	149.0	139.7
87.5°	0.0	0.0	9.3	9.3	9.3	14.0	18.6	14.0	23.3	27.9	27.9
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°	14079.5	14079.5	14079.5	14079.5	14079.5	14079.5	14079.5	14079.5	14079.5	14079.5	14079.5
2.5°	13953.8	13902.5	13744.2	13604.6	13562.7	13376.4	13101.7	13134.3	12934.1	13027.2	12929.5
5°	13762.9	13590.6	13185.5	13013.3	12561.6	12356.8	12217.1	11867.9	11705.0	11672.4	11532.7
7.5°	13274.0	13166.9	12659.4	12193.8	11714.3	11304.5	10778.4	10419.9	10163.8	10094.0	9889.1
10°	12887.6	12650.1	11947.1	11239.4	10554.9	9842.6	9158.2	8622.7	8362.0	8059.4	7956.9
12.5°	12505.8	12147.3	11197.5	10289.6	9404.9	8506.3	7677.6	7025.8	6457.7	6322.7	6276.2
15°	12268.3	11644.4	10527.0	9432.9	8175.8	7002.5	6173.7	5745.4	5396.2	5251.9	5354.3
17.5°	11956.4	11230.0	9884.5	8427.2	7044.4	5964.2	5270.5	5005.1	4879.4	4893.4	4851.5
20°	11565.3	10839.0	9041.8	7514.6	6034.1	5172.7	4777.0	4679.2	4697.8	4730.4	4716.4
22.5°	11285.9	10364.1	8431.8	6583.5	5214.6	4735.1	4572.1	4502.3	4562.8	4590.7	4567.4
25°	11071.7	9959.0	7691.6	5759.4	4739.7	4488.3	4413.8	4409.1	4502.3	4539.5	4516.2
27.5°	10876.2	9581.9	6955.9	5130.8	4423.1	4297.4	4274.1	4330.0	4390.5	4427.8	4460.4
30°	10759.8	9293.2	6266.9	4604.7	4264.8	4204.3	4162.4	4213.6	4246.2	4283.4	4264.8
32.5°	10871.5	9088.3	5601.1	4306.7	4134.4	4073.9	4129.8	4097.2	4153.1	4185.7	4134.4
35°	11220.7	8906.8	5126.2	4148.4	3985.5	4008.7	4018.0	4004.1	4027.4	3999.4	4060.0
37.5°	11565.3	8841.6	4688.5	4013.4	3915.6	3915.6	3906.3	3878.4	3924.9	3915.6	3943.6
40°	12002.9	8883.5	4316.0	3869.1	3850.4	3841.1	3803.9	3799.2	3780.6	3785.3	3794.6
42.5°	12384.7	8976.6	4101.9	3775.9	3789.9	3808.5	3738.7	3682.8	3706.1	3659.5	3659.5
45°	12789.8	9060.4	3911.0	3710.8	3696.8	3692.1	3636.3	3603.7	3585.0	3589.7	3631.6
47.5°	13427.6	9181.5	3766.6	3622.3	3631.6	3561.8	3547.8	3505.9	3524.5	3552.5	3557.1
50°	13879.3	9437.5	3654.9	3519.9	3552.5	3505.9	3422.1	3403.5	3403.5	3450.0	3440.7
52.5°	14195.9	9796.0	3547.8	3408.1	3422.1	3384.8	3356.9	3315.0	3287.1	3352.3	3384.8
55°	15164.3	10392.0	3519.9	3315.0	3310.4	3273.1	3221.9	3180.0	3166.0	3175.3	3240.5
57.5°	15071.2	10205.7	3431.4	3152.0	3142.7	3091.5	3040.3	3026.3	3021.7	3031.0	3049.6
60°	12235.7	7537.9	3063.6	2965.8	2951.8	2942.5	2891.3	2835.4	2807.5	2835.4	2812.2
62.5°	8096.6	5047.0	2700.4	2742.3	2751.6	2728.4	2644.6	2588.7	2598.0	2630.6	2579.4
65°	3976.1	2965.8	2449.0	2560.7	2570.1	2504.9	2425.7	2360.5	2328.0	2355.9	2332.6
67.5°	2272.1	2267.4	2244.1	2360.5	2355.9	2290.7	2165.0	2109.1	2053.3	2062.6	2048.6
70°	1927.5	1964.8	2011.4	2081.2	2076.5	2002.0	1853.1	1811.1	1732.0	1722.7	1699.4
72.5°	1517.8	1583.0	1685.4	1736.7	1694.8	1601.6	1503.9	1434.0	1364.2	1322.3	1336.2
75°	1126.7	1219.8	1275.7	1308.3	1243.1	1191.9	1112.8	1029.0	945.1	907.9	893.9
77.5°	819.4	847.4	898.6	921.9	880.0	828.8	782.2	698.4	619.2	568.0	554.1
80°	572.7	591.3	628.5	628.5	628.5	605.3	544.7	460.9	409.7	363.2	353.8
82.5°	400.4	419.0	456.3	437.7	433.0	405.1	367.8	302.6	246.8	214.2	204.9
85°	139.7	153.6	186.2	223.5	237.5	232.8	209.5	167.6	130.4	107.1	97.8
87.5°	32.6	32.6	37.2	32.6	32.6	37.2	32.6	32.6	32.6	23.3	18.6
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)