

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: P529726

Luminaire Tested: **GALN-SA4D-827-U-T3-GRSWH**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P529726  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-16)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA4D-827-U-T3-GRSWH  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH WHITE GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19180 lumens  
Efficiency: N/A  
Efficacy: 78.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

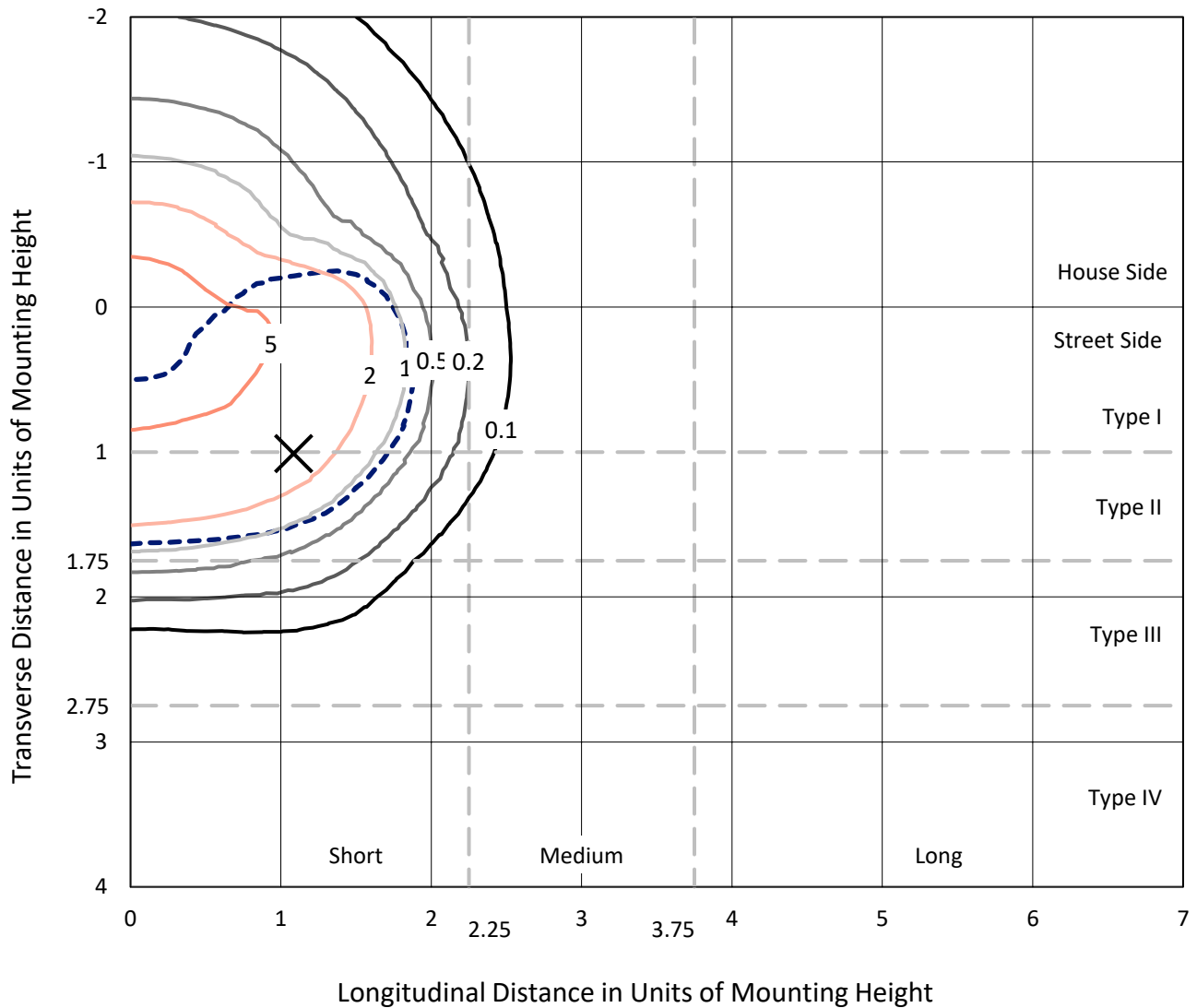
Input Watts (W): 245  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

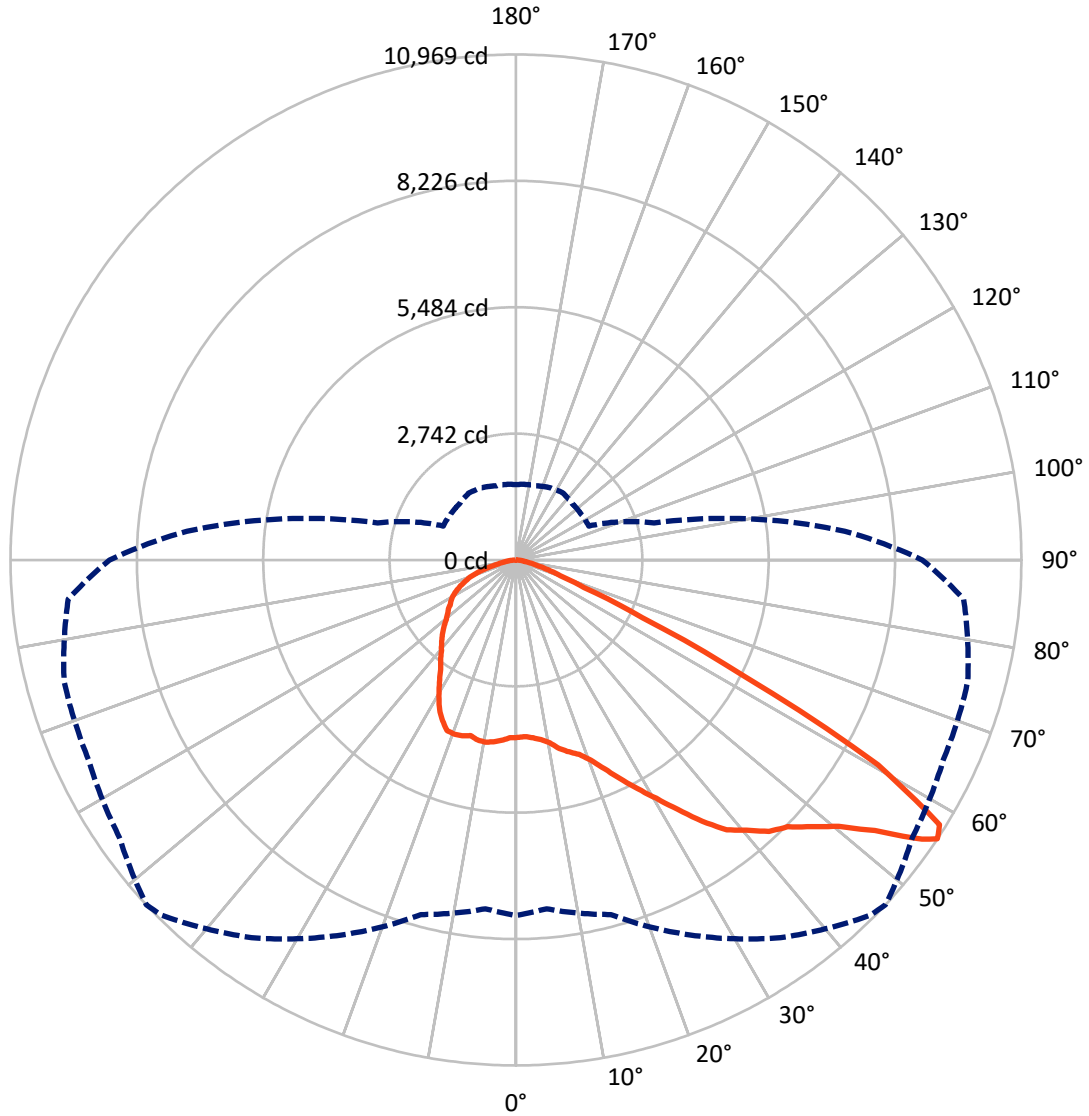
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.4 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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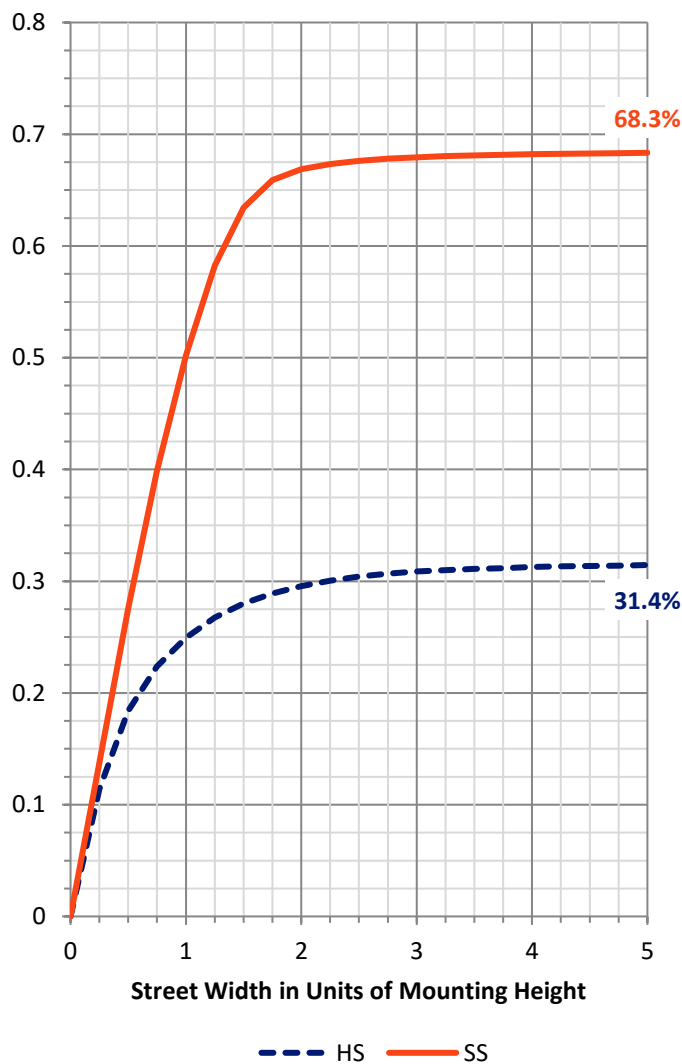
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6077.9	0.0	6077.9
	% Fixture	31.7	0.0	31.7
<b>Street Side</b>	Lumens	13102.1	0.0	13102.1
	% Fixture	68.3	0.0	68.3
<b>Total</b>	Lumens	19180.0	0.0	19180.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	375.4	2.0
10°-20°	1184.2	6.2
20°-30°	2093.3	10.9
30°-40°	3144.1	16.4
40°-50°	4315.0	22.5
50°-60°	5140.7	26.8
60°-70°	2199.9	11.5
70°-80°	622.6	3.2
80°-90°	104.8	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°	19180.0	100.0
0°-180°	19180.0	100.0

**Coefficient of Utilization**



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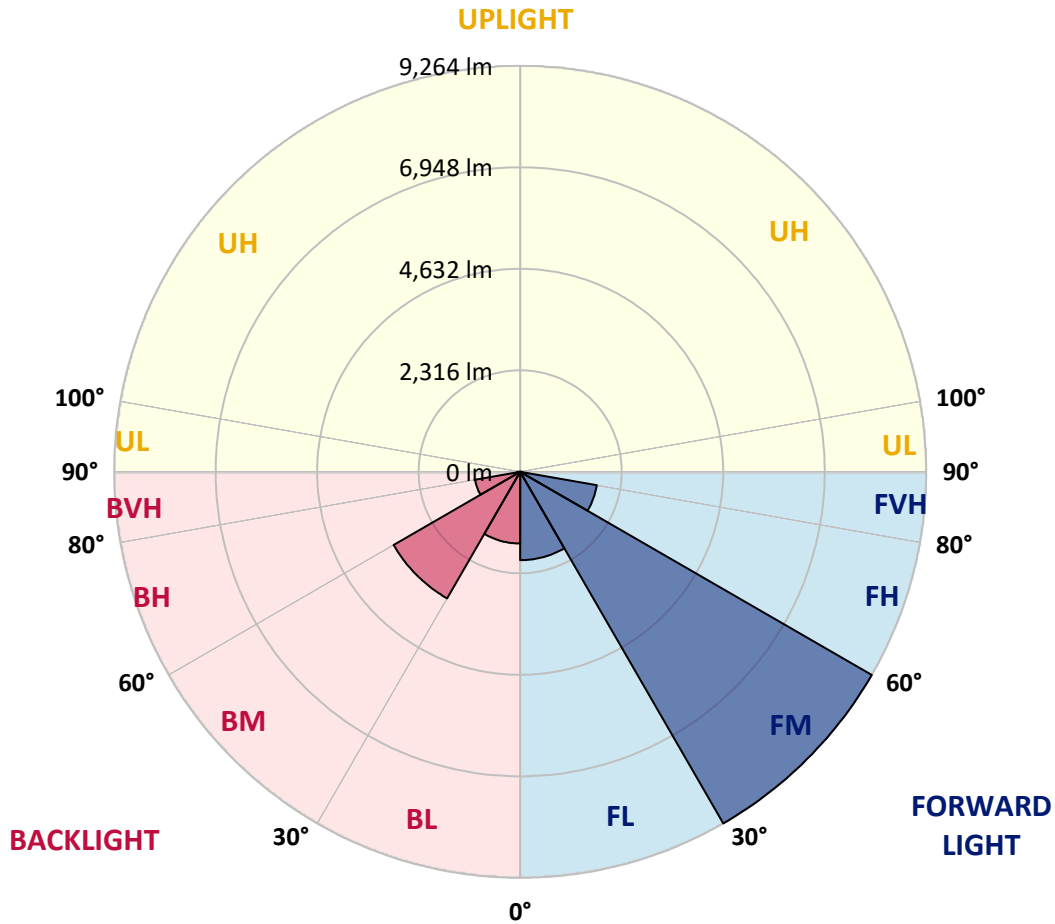
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2016.5	10.5			
FM (30°-60°)	9264.4	48.3			
FH (60°-80°)	1776.8	9.3			G1/1800
FVH (80°-90°)	44.5	0.2			G1/100
BL (0°-30°)	1636.4	8.5	B3/2500		
BM (30°-60°)	3335.5	17.4	B3/5000		
BH (60°-80°)	1045.7	5.5	B3/2500		G3/2500
BVH (80°-90°)	60.3	0.3			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°	47°	55°	65°	75°	85°
0°	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7
2.5°	3838.0	3830.7	3825.8	3864.9	3850.2	3852.7	3838.0	3852.7	3862.5	3840.4	3872.2
5°	3830.7	3852.7	3833.1	3845.3	3877.1	3867.4	3877.1	3906.5	3899.2	3891.8	3882.0
7.5°	3899.2	3901.6	3916.3	3921.2	3931.0	3921.2	3935.8	3962.8	3955.4	3913.8	3918.7
10°	3997.0	4001.9	4004.3	4031.2	4048.4	4050.8	4033.7	4009.2	4006.8	4063.0	4023.9
12.5°	4109.5	4097.3	4126.6	4136.4	4156.0	4178.0	4200.0	4148.7	4180.5	4182.9	4136.4
15°	4273.4	4285.6	4251.4	4251.4	4258.7	4261.2	4322.3	4297.9	4293.0	4266.1	4285.6
17.5°	4518.0	4434.9	4432.4	4398.2	4393.3	4412.8	4434.9	4454.4	4520.5	4466.7	4361.5
20°	4696.6	4716.2	4645.2	4603.6	4611.0	4655.0	4633.0	4721.1	4767.5	4679.5	4576.7
22.5°	5012.2	4946.1	4963.2	4870.3	4877.6	4924.1	4921.6	5012.2	5039.1	4899.6	4750.4
25°	5225.0	5207.8	5222.5	5149.1	5158.9	5195.6	5254.3	5403.5	5359.5	5205.4	4860.5
27.5°	5535.6	5501.4	5489.2	5462.2	5452.5	5550.3	5618.8	5777.8	5746.0	5521.0	5056.2
30°	5853.6	5831.6	5843.8	5733.8	5772.9	5980.8	6000.4	6218.1	6203.4	5807.1	5273.9
32.5°	6073.8	6086.0	6108.0	6046.9	6220.5	6386.9	6452.9	6700.0	6712.2	6298.8	5694.6
35°	6428.5	6386.9	6399.1	6470.1	6550.8	6854.1	6961.7	7125.6	7228.4	6815.0	6098.2
37.5°	6651.1	6695.1	6643.7	6756.3	6966.6	7331.1	7428.9	7597.7	7705.4	7323.8	6648.6
40°	6998.4	6927.5	6964.2	7044.9	7260.2	7734.7	7707.8	7881.5	7915.7	7756.7	7162.3
42.5°	7372.7	7338.4	7287.1	7470.5	7651.5	7996.4	8050.3	7969.5	8143.2	8179.9	7896.2
45°	7820.3	7861.9	7869.3	7874.1	8033.1	8334.0	8260.6	8189.7	8390.3	8656.9	8351.1
47.5°	8236.2	8104.1	8199.5	8331.6	8556.6	8559.1	8644.7	8475.9	8688.7	8926.0	8762.1
50°	8375.6	8312.0	8439.2	8688.7	9036.1	9072.8	9082.5	8842.8	8952.9	9141.2	8904.0
52.5°	8321.8	8299.8	8625.1	9011.6	9520.4	9706.3	9755.2	9459.2	9520.4	9434.8	9217.1
55°	8064.9	8131.0	8458.8	9246.4	10026.8	10601.6	10694.5	10320.3	9931.4	9997.4	9757.7
56°	7712.7	7597.7	7964.6	8979.8	10004.7	10892.7	10968.5	10501.3	10237.1	10151.5	9752.8
57.5°	6543.4	6394.2	6876.1	8079.6	9449.5	10782.6	10838.9	10577.1	10185.8	10012.1	9041.0
60°	3830.7	3904.0	4515.6	5572.3	7289.5	8840.4	9028.7	9219.5	8957.8	8179.9	6729.3
62.5°	1849.3	1802.8	2240.7	3194.7	4442.2	5643.3	5587.0	6122.7	6416.2	5812.0	4249.0
65°	968.7	963.8	1223.1	1744.1	2441.3	2964.7	3016.1	3304.7	3708.4	2994.1	2157.5
67.5°	711.8	731.4	861.0	1225.5	1570.4	1602.2	1594.9	1739.2	1778.3	1504.4	1325.8
70°	557.7	567.5	662.9	932.0	1169.3	1047.0	1024.9	1042.1	1157.0	1205.9	1147.2
72.5°	403.6	413.4	494.1	628.7	731.4	714.3	729.0	824.4	966.2	1017.6	956.4
75°	269.1	276.4	320.4	384.0	433.0	467.2	494.1	604.2	736.3	765.6	736.3
77.5°	185.9	193.2	222.6	271.5	276.4	298.4	308.2	359.6	440.3	477.0	457.4
80°	105.2	105.2	119.9	139.4	171.2	200.6	205.5	247.1	283.8	308.2	313.1
82.5°	48.9	51.4	63.6	85.6	112.5	139.4	144.3	171.2	198.1	222.6	229.9
85°	24.5	26.9	36.7	51.4	68.5	83.2	80.7	83.2	88.1	83.2	85.6
87.5°	7.3	7.3	9.8	12.2	9.8	12.2	12.2	14.7	17.1	19.6	22.0
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°	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7	3852.7
2.5°	3874.7	3882.0	3833.1	3879.6	3862.5	3860.0	3894.3	3889.4	3901.6	3896.7	3867.4
5°	3877.1	3860.0	3911.4	3864.9	3886.9	3933.4	3901.6	3975.0	3938.3	3962.8	3908.9
7.5°	3953.0	3957.9	3948.1	3967.6	3957.9	3979.9	3962.8	3979.9	3950.5	3953.0	4001.9
10°	4019.0	4004.3	4021.5	3997.0	4014.1	4006.8	3967.6	3955.4	3965.2	3953.0	3984.8
12.5°	4141.3	4114.4	4102.2	4072.8	4053.3	3979.9	3918.7	3884.5	3931.0	3938.3	3923.6
15°	4266.1	4268.5	4212.3	4146.2	4023.9	3913.8	3928.5	3940.7	3940.7	3960.3	3923.6
17.5°	4344.4	4344.4	4293.0	4160.9	4036.1	3972.5	3957.9	3918.7	3884.5	3879.6	3877.1
20°	4481.3	4439.8	4322.3	4158.4	4031.2	4001.9	3891.8	3798.9	3727.9	3703.5	3701.0
22.5°	4637.9	4532.7	4368.8	4163.3	4023.9	3982.3	3776.8	3637.4	3510.2	3456.4	3463.7
25°	4782.2	4613.4	4395.7	4141.3	3997.0	3796.4	3566.5	3373.2	3241.1	3197.1	3175.1
27.5°	4882.5	4699.0	4395.7	4160.9	3896.7	3588.5	3353.7	3106.6	2991.6	2962.3	2967.2
30°	5017.0	4806.7	4471.6	4119.3	3696.1	3319.4	3038.1	2876.7	2808.2	2783.7	2800.8
32.5°	5332.6	5088.0	4576.7	4019.0	3458.8	3050.3	2822.9	2732.3	2632.1	2583.1	2566.0
35°	5675.1	5354.6	4679.5	3850.2	3192.2	2805.7	2663.9	2580.7	2460.8	2407.0	2416.8
37.5°	6159.4	5697.1	4686.8	3571.4	2903.6	2668.7	2539.1	2409.5	2311.6	2228.4	2204.0
40°	6812.5	6164.3	4669.7	3277.8	2671.2	2507.3	2411.9	2250.5	2140.4	2081.7	2093.9
42.5°	7387.4	6712.2	4598.8	2945.2	2460.8	2397.2	2289.6	2130.6	2023.0	1961.8	1956.9
45°	7871.7	7115.8	4464.2	2661.4	2284.7	2274.9	2150.2	2027.9	1942.2	1886.0	1910.4
47.5°	8319.3	7441.2	4261.2	2377.7	2123.3	2142.8	2023.0	1947.1	1893.3	1841.9	1839.5
50°	8480.8	7436.3	4082.6	2142.8	1993.6	1983.8	1978.9	1898.2	1841.9	1797.9	1817.5
52.5°	8749.9	7519.5	3889.4	1981.4	1876.2	1878.6	1895.8	1837.1	1773.5	1746.5	1771.0
55°	9136.4	7531.7	3463.7	1793.0	1778.3	1795.5	1795.5	1756.3	1702.5	1680.5	1668.3
56°	8820.8	7167.2	3106.6	1744.1	1729.4	1729.4	1775.9	1731.9	1665.8	1648.7	1634.0
57.5°	8135.9	6279.3	2600.3	1685.4	1663.4	1697.6	1722.1	1675.6	1614.5	1590.0	1604.7
60°	5611.5	4249.0	1954.5	1558.2	1558.2	1614.5	1634.0	1565.5	1538.6	1536.2	1516.6
62.5°	3275.4	2475.5	1528.8	1443.2	1448.1	1494.6	1509.3	1470.1	1435.9	1477.5	1497.0
65°	1736.8	1477.5	1311.1	1320.9	1323.4	1360.1	1423.7	1421.2	1418.8	1431.0	1433.4
67.5°	1257.3	1228.0	1191.3	1181.5	1186.4	1213.3	1276.9	1325.8	1323.4	1294.0	1272.0
70°	1120.3	1078.8	1056.7	1059.2	1039.6	1071.4	1122.8	1154.6	1098.3	1064.1	1049.4
72.5°	932.0	919.8	905.1	907.5	868.4	861.0	802.3	802.3	787.7	777.9	795.0
75°	711.8	706.9	714.3	702.0	660.5	616.4	582.2	550.4	501.5	481.9	472.1
77.5°	450.1	464.8	481.9	455.0	437.9	406.1	371.8	340.0	300.9	278.9	278.9
80°	305.8	318.0	330.2	325.3	305.8	276.4	249.5	215.3	188.4	171.2	168.8
82.5°	232.4	242.2	259.3	239.7	220.2	195.7	173.7	149.2	124.8	105.2	105.2
85°	83.2	95.4	105.2	115.0	122.3	124.8	107.6	88.1	70.9	56.3	53.8
87.5°	22.0	24.5	26.9	24.5	24.5	24.5	26.9	24.5	22.0	17.1	17.1
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)