

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: P534017

Luminaire Tested: **GALN-SA9C-727-U-T3R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P534017  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-727-U-T3R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32417 lumens  
Efficiency: N/A  
Efficacy: 67.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

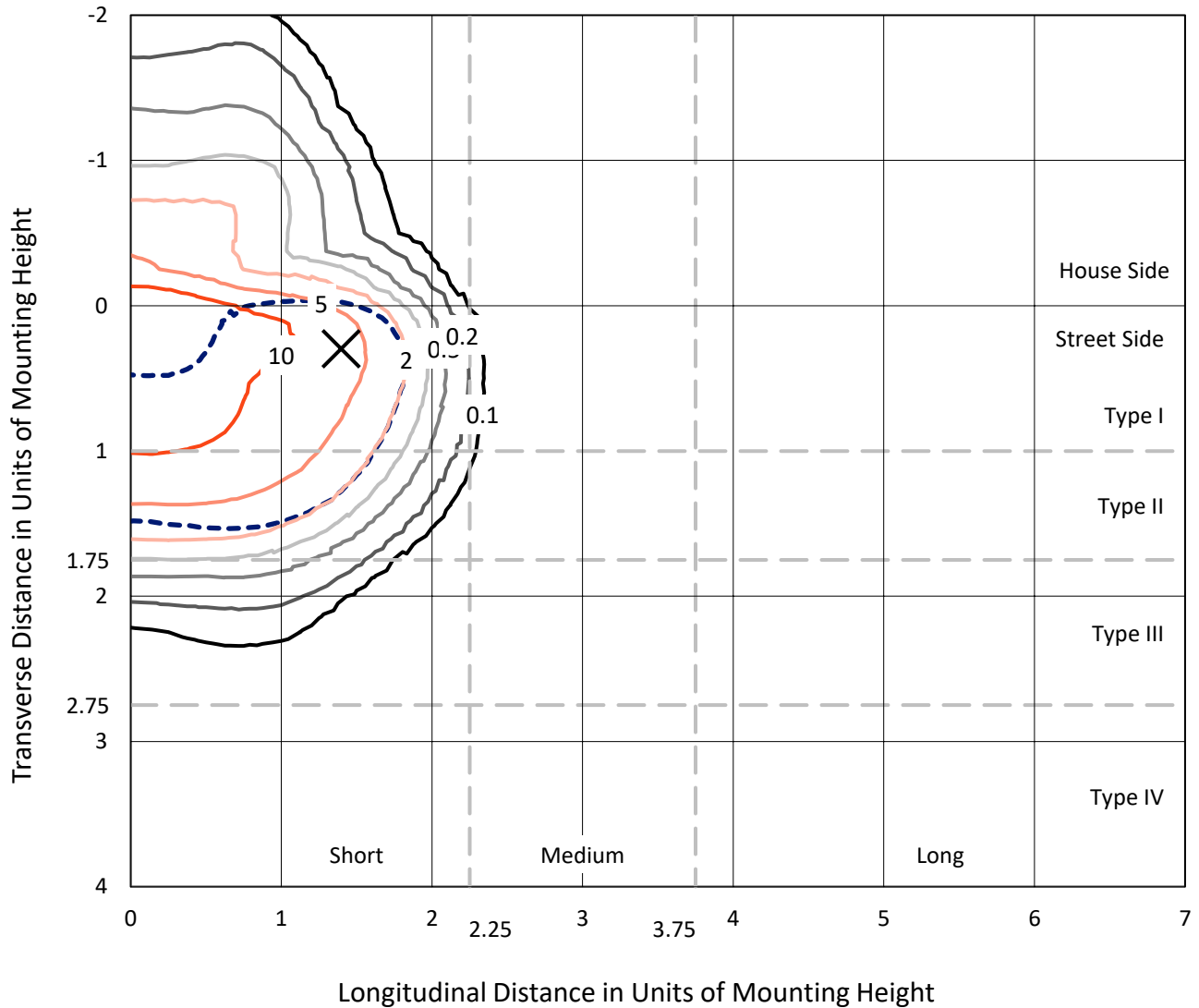
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

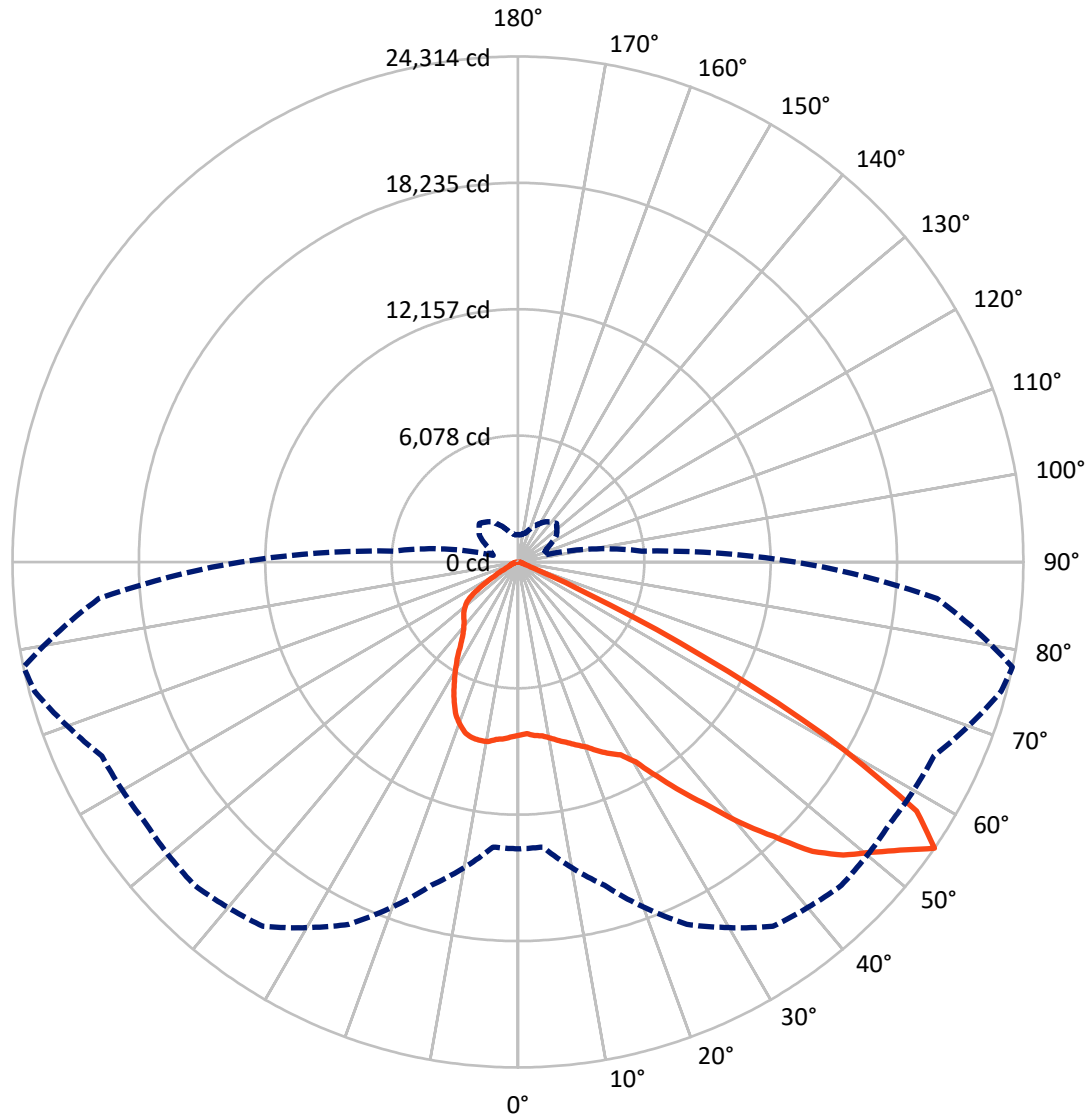
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.3 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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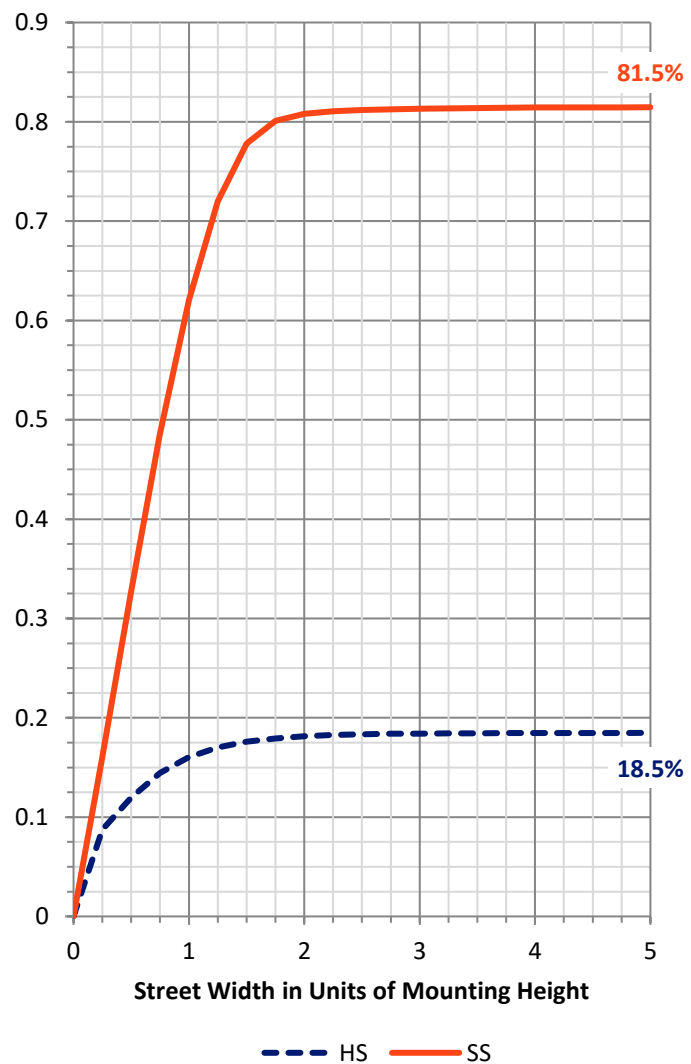
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6021.1	0.0	6021.1
	% Fixture	18.6	0.0	18.6
<b>Street Side</b>	Lumens	26395.9	0.0	26395.9
	% Fixture	81.4	0.0	81.4
<b>Total</b>	Lumens	32417.0	0.0	32417.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	743.2	2.3
10°-20°	1966.8	6.1
20°-30°	3447.5	10.6
30°-40°	5684.4	17.5
40°-50°	8271.5	25.5
50°-60°	9372.5	28.9
60°-70°	2679.8	8.3
70°-80°	208.1	0.6
80°-90°	43.3	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°	32417.0	100.0
0°-180°	32417.0	100.0

**Coefficient of Utilization**



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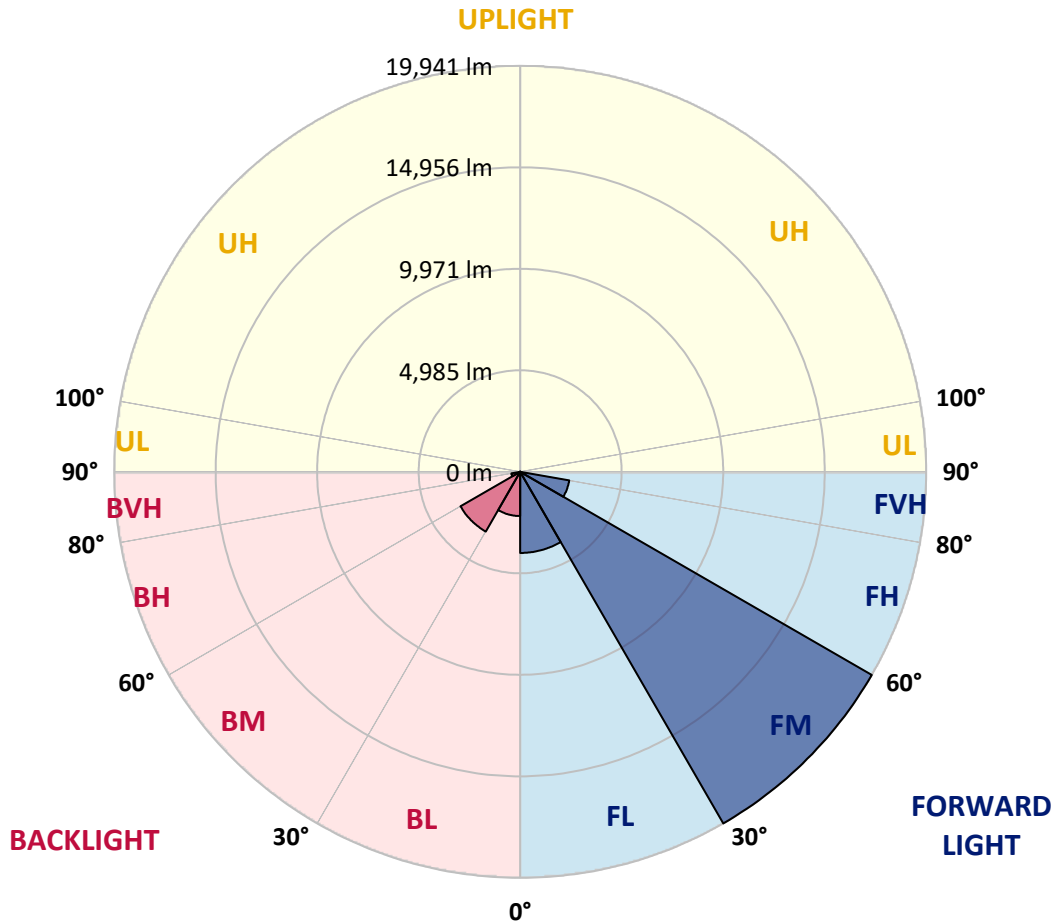
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3985.0	12.3			
FM (30°-60°)	19941.5	61.5			
FH (60°-80°)	2448.3	7.6			G2/5000
FVH (80°-90°)	21.1	0.1			G1/100
BL (0°-30°)	2172.4	6.7	B3/2500		
BM (30°-60°)	3387.0	10.4	B3/5000		
BH (60°-80°)	439.5	1.4	B1/500		G1/500
BVH (80°-90°)	22.2	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	8334.4	8334.4	8334.4	8334.4	8334.4	8334.4	8334.4	8334.4	8334.4	8334.4	8334.4
2.5°	7836.0	7911.3	7922.9	8015.7	8009.9	8166.4	8212.7	8218.5	8322.8	8270.7	8404.0
5°	7615.7	7575.2	7557.8	7720.1	7766.4	7905.5	8021.5	8091.0	8305.5	8380.8	8519.9
7.5°	7418.7	7418.7	7430.3	7575.2	7557.8	7737.5	7859.2	8073.6	8386.6	8450.3	8618.4
10°	7227.4	7157.9	7244.8	7395.5	7523.0	7604.2	7859.2	8062.0	8427.2	8612.6	8844.5
12.5°	7128.9	7163.7	7175.3	7285.4	7424.5	7667.9	7807.0	8143.2	8717.0	8827.1	9076.3
15°	7749.0	7679.5	7511.4	7412.9	7528.8	7644.7	7992.5	8334.4	8867.6	9024.1	9302.3
17.5°	8467.7	8409.8	8270.7	8004.1	7743.3	7957.7	8230.1	8543.1	9029.9	9261.8	9673.3
20°	9406.7	9313.9	9174.8	8653.2	8427.2	8195.3	8485.1	8856.1	9296.5	9505.2	9928.3
22.5°	10525.3	10525.3	10212.3	9580.5	9111.1	8890.8	9012.5	9227.0	9592.1	9876.1	10293.4
25°	11690.2	11655.5	11371.5	10716.5	9922.5	9661.7	9800.8	9951.5	10050.0	10206.5	10484.7
27.5°	13023.3	12820.4	12461.1	11736.6	11035.3	10531.1	10681.7	10548.4	10426.7	10507.9	10907.8
30°	13927.4	14054.9	13597.1	12901.6	12240.8	11678.6	11707.6	11591.7	11035.3	11151.2	11388.8
32.5°	14866.4	14947.5	14692.5	14309.9	13649.2	12994.3	12756.7	12658.1	12240.8	12293.0	12061.2
35°	15648.8	15805.3	15579.2	15411.2	15219.9	14692.5	14037.5	14356.3	13684.0	13556.5	12953.7
37.5°	16367.5	16321.1	16587.7	16413.8	16373.3	16002.3	15283.7	15347.4	14895.3	14866.4	14170.8
40°	17010.8	17022.4	17387.5	17468.7	17306.4	16645.7	15602.4	16106.7	16471.8	16506.6	15614.0
42.5°	17544.0	17700.5	18013.5	18668.4	18425.0	17323.8	15932.8	16483.4	17839.6	18054.1	16981.8
45°	18007.7	18326.5	18714.8	19300.2	19161.1	18285.9	16755.8	17260.0	19300.2	19862.4	18268.5
47.5°	18036.7	18454.0	18877.1	19746.5	19920.3	18801.7	17607.8	18488.8	20459.3	21067.9	19207.4
50°	17920.8	18141.0	18987.2	19931.9	20326.0	19642.1	18801.7	19520.4	21583.7	21966.3	19682.7
52.5°	16547.1	16715.2	18413.4	20105.8	21056.3	20592.6	20384.0	20957.8	22731.3	23015.3	20129.0
55°	13794.1	13765.1	16100.9	19230.6	21392.5	22001.0	21873.5	22076.4	24058.6	24313.6	20239.1
57.5°	9435.6	9963.1	11980.0	16013.9	19334.9	21670.7	21804.0	21467.8	22511.1	22609.6	17642.6
60°	5088.8	5309.0	6931.8	10687.5	14721.5	17659.9	18007.7	17399.1	17318.0	17039.8	12594.4
62.5°	2022.8	2132.9	3054.4	5291.6	8021.5	10733.9	11481.6	11232.4	10699.1	9968.9	6520.3
65°	962.1	1031.7	1518.5	2474.8	3558.7	4474.4	5222.1	5453.9	4022.3	3622.4	2150.3
67.5°	654.9	707.1	1107.0	1414.2	1269.3	1327.2	1727.2	1605.4	944.7	805.6	597.0
70°	498.4	533.2	886.8	962.1	568.0	399.9	446.3	417.3	388.3	394.1	388.3
72.5°	353.5	382.5	649.1	568.0	249.2	185.5	237.6	284.0	284.0	284.0	278.2
75°	214.4	243.4	376.7	220.2	98.5	98.5	150.7	191.3	202.9	208.7	197.1
77.5°	110.1	139.1	127.5	63.8	63.8	75.3	110.1	133.3	144.9	144.9	139.1
80°	23.2	23.2	23.2	34.8	63.8	81.1	110.1	121.7	139.1	139.1	127.5
82.5°	0.0	5.8	17.4	34.8	58.0	75.3	104.3	121.7	139.1	144.9	133.3
85°	0.0	5.8	11.6	23.2	40.6	46.4	40.6	34.8	34.8	34.8	34.8
87.5°	0.0	0.0	5.8	5.8	5.8	11.6	11.6	11.6	11.6	11.6	11.6
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°	8334.4	8334.4	8334.4	8334.4	8334.4	8334.4	8334.4	8334.4	8334.4	8334.4	8334.4
2.5°	8415.6	8433.0	8404.0	8398.2	8375.0	8444.6	8276.5	8235.9	8340.2	8241.7	8264.9
5°	8525.7	8566.3	8514.1	8427.2	8299.7	8102.6	7934.5	7714.3	7609.9	7534.6	7523.0
7.5°	8606.8	8635.8	8583.7	8305.5	7922.9	7424.5	7053.5	6781.1	6566.7	6502.9	6398.6
10°	8937.2	8943.0	8682.2	8067.8	7320.2	6665.2	6097.2	5679.9	5465.5	5332.2	5274.2
12.5°	9157.4	9145.8	8618.4	7598.4	6601.5	5732.1	5083.0	4578.7	4381.7	4317.9	4277.3
15°	9435.6	9371.9	8467.7	7117.3	5674.1	4735.2	4149.8	3802.1	3784.7	3744.1	3784.7
17.5°	9655.9	9476.2	8247.5	6242.1	4787.4	3900.6	3518.1	3541.3	3587.6	3628.2	3634.0
20°	10015.2	9644.3	7743.3	5477.1	3964.4	3344.2	3338.4	3442.7	3558.7	3605.0	3651.4
22.5°	10287.6	9713.8	7204.2	4659.9	3292.0	3118.2	3216.7	3373.2	3460.1	3506.5	3576.0
25°	10386.2	9522.6	6485.6	3842.6	2967.5	3013.8	3164.5	3268.9	3379.0	3431.1	3402.2
27.5°	10484.7	9424.0	5627.8	3164.5	2793.6	2944.3	3071.8	3176.1	3210.9	3280.5	3326.8
30°	10722.3	9082.1	4856.9	2735.6	2706.7	2897.9	2990.7	3025.4	3118.2	3158.7	3158.7
32.5°	10913.6	8948.8	4039.7	2532.8	2695.1	2921.1	2932.7	2932.7	2944.3	2915.3	2903.7
35°	11307.7	8490.9	3309.4	2411.1	2689.3	2926.9	2955.9	2857.4	2590.7	2486.4	2457.4
37.5°	11794.6	8195.3	2770.4	2382.1	2729.8	2996.5	3042.8	2671.9	2324.1	2156.1	2127.1
40°	12385.7	7986.7	2416.9	2370.5	2822.6	3158.7	3019.6	2527.0	2074.9	1831.5	1819.9
42.5°	13075.4	7795.4	2179.2	2364.7	2938.5	3326.8	2996.5	2405.3	1819.9	1657.6	1680.8
45°	13626.0	7691.1	2017.0	2324.1	2979.1	3425.3	3013.8	2190.8	1715.6	1611.2	1622.8
47.5°	14054.9	7470.8	1883.7	2254.6	2973.3	3460.1	2857.4	2103.9	1663.4	1692.4	1721.4
50°	14066.5	7175.3	1715.6	2103.9	2886.3	3396.4	2677.7	2022.8	1651.8	1773.5	1831.5
52.5°	13910.0	6758.0	1535.9	1889.4	2683.5	3176.1	2515.4	1988.0	1599.7	1588.1	1657.6
55°	13353.6	5975.5	1234.5	1530.1	2266.2	2619.7	2370.5	1924.2	1443.2	1309.9	1321.5
57.5°	10791.9	4283.1	909.9	1095.4	1605.4	1918.4	2138.7	1895.2	1298.3	1112.8	1118.6
60°	6682.6	2428.5	666.5	747.7	991.1	1165.0	1733.0	1761.9	1159.2	938.9	927.3
62.5°	3431.1	1199.7	515.8	527.4	608.6	683.9	1188.1	1477.9	1049.0	892.6	892.6
65°	1147.6	591.2	452.1	405.7	405.7	423.1	718.7	1025.9	886.8	747.7	747.7
67.5°	492.6	440.5	394.1	353.5	324.6	307.2	405.7	597.0	660.7	568.0	544.8
70°	382.5	370.9	342.0	295.6	255.0	231.8	237.6	307.2	376.7	365.1	353.5
72.5°	284.0	284.0	272.4	231.8	197.1	168.1	156.5	162.3	179.7	185.5	191.3
75°	197.1	202.9	202.9	179.7	144.9	121.7	104.3	86.9	69.6	58.0	52.2
77.5°	133.3	139.1	150.7	133.3	110.1	81.1	63.8	46.4	29.0	11.6	11.6
80°	115.9	133.3	144.9	133.3	115.9	86.9	63.8	34.8	17.4	0.0	0.0
82.5°	121.7	133.3	150.7	127.5	110.1	81.1	63.8	40.6	17.4	5.8	0.0
85°	29.0	29.0	34.8	40.6	52.2	58.0	46.4	29.0	17.4	5.8	0.0
87.5°	11.6	11.6	11.6	11.6	11.6	5.8	5.8	5.8	5.8	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)