

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: P533927

Luminaire Tested: **GALN-SA9B-827-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533927  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-827-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22176 lumens  
Efficiency: N/A  
Efficacy: 60.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2

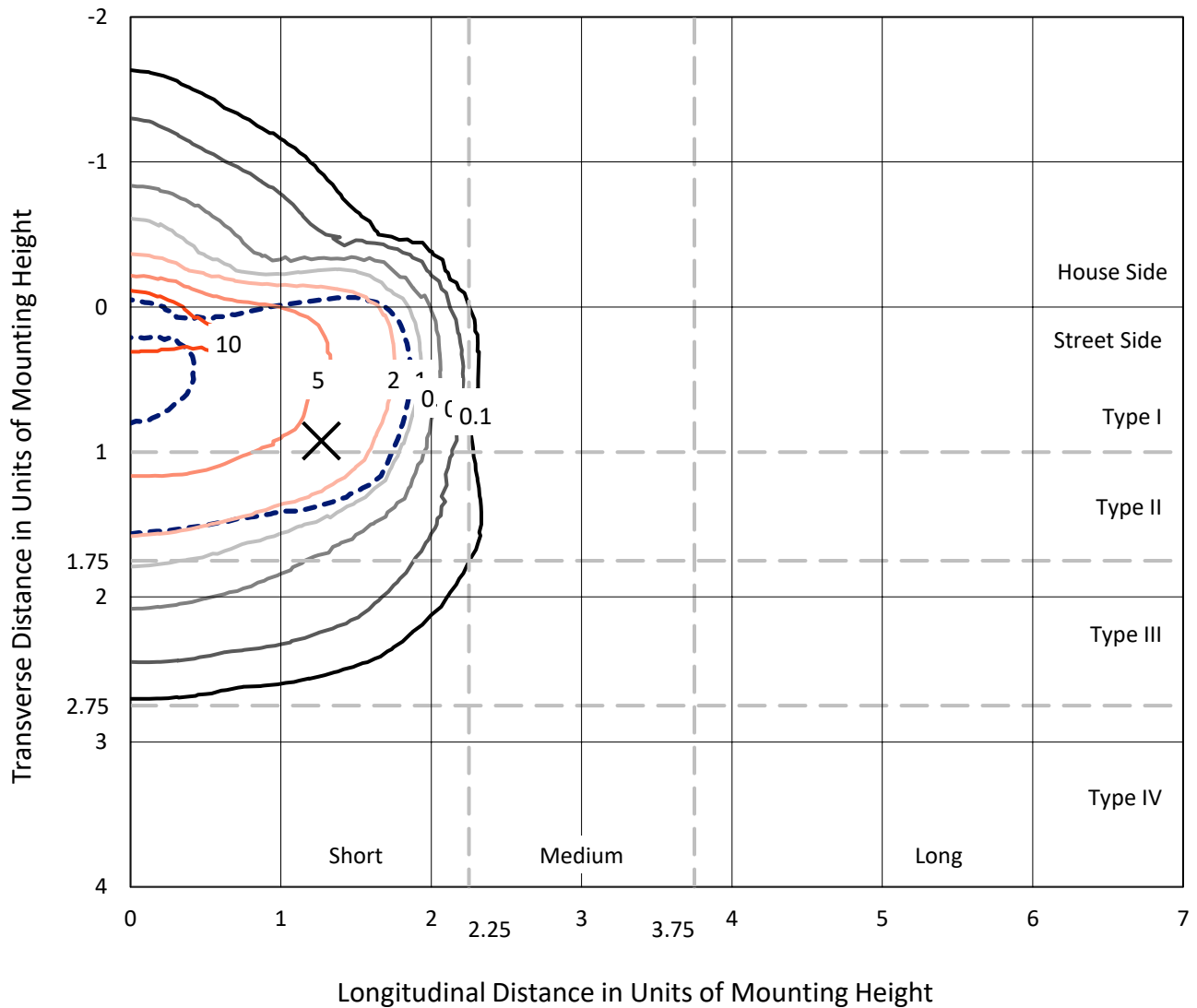
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

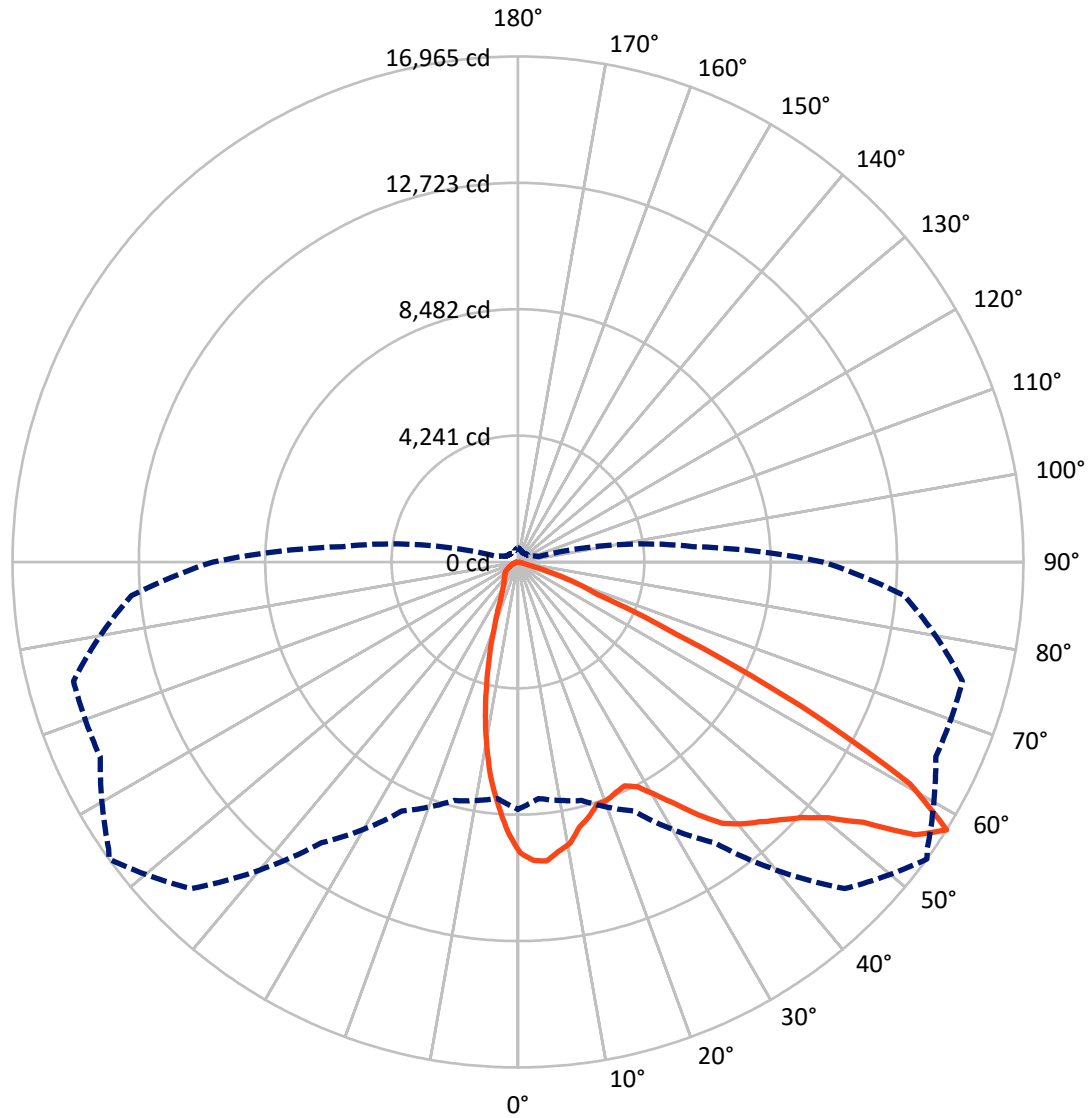
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 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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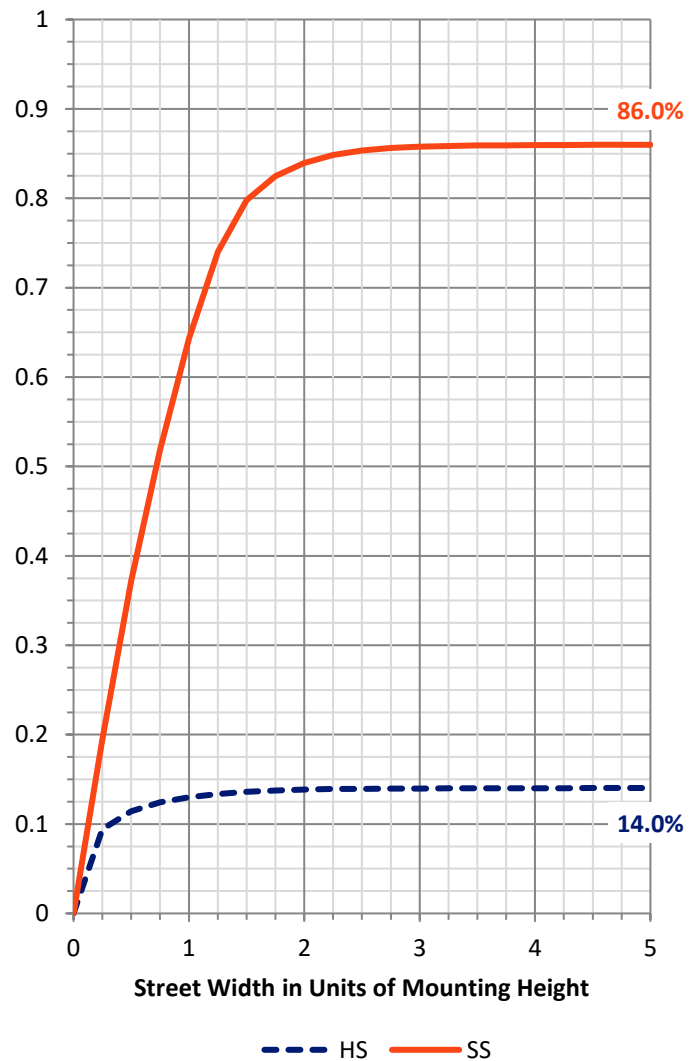
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3133.8	0.0	3133.8
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	19042.2	0.0	19042.2
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	22176.0	0.0	22176.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	817.5	3.7
10°-20°	1745.3	7.9
20°-30°	2312.9	10.4
30°-40°	3361.2	15.2
40°-50°	4984.3	22.5
50°-60°	6232.6	28.1
60°-70°	2458.5	11.1
70°-80°	244.8	1.1
80°-90°	19.0	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°	22176.0	100.0
0°-180°	22176.0	100.0

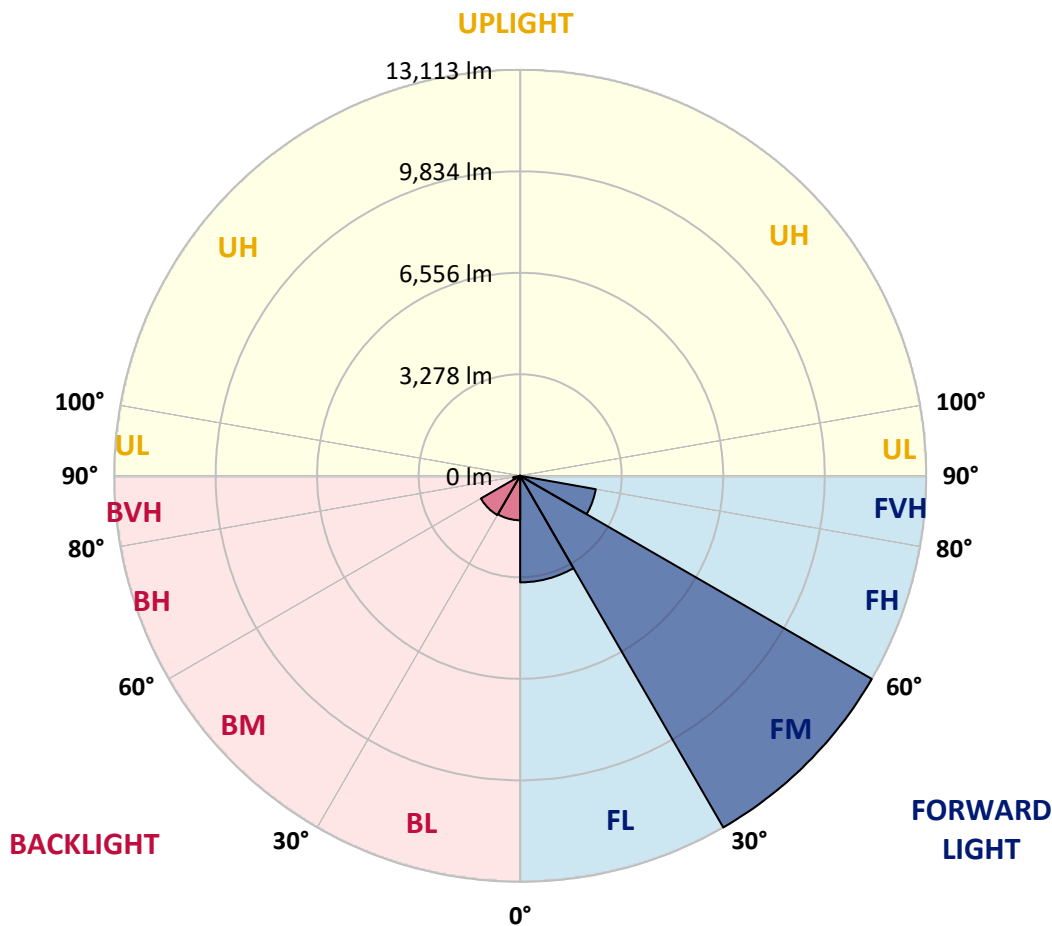


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3442.4	15.5			
FM (30°-60°)	13112.6	59.1			
FH (60°-80°)	2478.5	11.2			G2/5000
FVH (80°-90°)	8.6	0.0			G0/10
BL (0°-30°)	1433.3	6.5	B3/2500		
BM (30°-60°)	1465.5	6.6	B2/2500		
BH (60°-80°)	224.7	1.0	B1/500		G1/500
BVH (80°-90°)	10.4	0.0			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°	54°	55°	65°	75°	85°
0°	9768.8	9768.8	9768.8	9768.8	9768.8	9768.8	9768.8	9768.8	9768.8	9768.8	9768.8
2.5°	10337.9	10230.7	10238.9	10201.8	10152.3	10189.4	10028.6	10065.7	10061.6	9843.1	9698.7
5°	10078.1	10193.6	10074.0	10172.9	10078.1	10181.2	10082.2	10008.0	9888.4	9727.6	9459.6
7.5°	9636.9	9525.5	9558.5	9682.2	9702.8	9933.8	9810.1	9904.9	9855.4	9537.9	9170.9
10°	8750.3	8725.6	8890.5	9055.4	9257.5	9504.9	9599.8	9546.2	9509.0	9389.5	8898.7
12.5°	8069.9	8140.0	8135.9	8408.0	8750.3	8890.5	9137.9	9129.7	9335.8	9113.2	8643.1
15°	7422.5	7459.6	7632.8	7801.9	8181.2	8581.2	8886.4	8927.6	9175.0	9018.3	8445.1
17.5°	7026.6	6973.0	7109.1	7311.2	7698.8	8222.5	8560.6	8659.6	8997.7	8964.7	8218.4
20°	6634.9	6634.9	6746.2	6985.4	7340.0	7929.7	8531.7	8502.9	8997.7	8902.9	7975.1
22.5°	6502.9	6568.9	6597.8	6779.2	7199.8	7707.0	8408.0	8461.6	9067.8	8874.0	7867.8
25°	6684.4	6597.8	6606.0	6750.3	7146.2	7599.8	8317.3	8436.9	9195.6	9018.3	7781.2
27.5°	6713.2	6799.8	6824.6	6923.5	7187.4	7632.8	8544.1	8787.4	9513.2	9356.5	7806.0
30°	6964.8	7051.4	7047.2	7216.3	7397.8	7900.8	9051.3	9100.8	10168.8	9781.2	7958.6
32.5°	7269.9	7360.6	7389.5	7587.4	7731.8	8391.5	9669.9	9797.7	10799.7	10449.2	8358.6
35°	7649.3	7616.3	7748.3	7946.2	8255.5	9109.0	10424.5	10638.9	11480.1	11315.2	8770.9
37.5°	8123.5	8082.3	8210.1	8531.7	8952.4	9958.5	11121.4	11261.6	11975.0	12119.3	9533.8
40°	8457.5	8474.0	8861.6	9294.6	9740.0	10766.7	11562.6	11698.7	12321.3	12869.8	10111.1
42.5°	9014.2	9117.3	9583.3	10111.1	10577.1	11372.9	11921.3	12053.3	12482.2	13471.8	10890.4
45°	9822.4	9777.1	10292.5	10882.2	11397.7	12003.8	12346.1	12300.7	12577.0	14069.7	11381.2
47.5°	10861.6	10869.8	11212.1	11715.2	12251.2	12552.3	12820.3	12659.5	12774.9	14700.7	12036.8
50°	11570.8	11632.7	11909.0	12424.4	12692.5	13154.3	13496.6	13397.6	13360.5	15080.0	12449.2
52.5°	11752.3	11937.8	12086.3	12729.6	13356.4	14086.2	14523.3	14733.7	14073.9	15207.9	12972.9
55°	10383.2	10548.2	11071.9	11954.3	13607.9	15562.5	16164.5	16168.7	15005.8	15776.9	13339.9
57.5°	8300.8	7966.8	8288.5	9224.5	11504.9	15500.6	16964.5	16770.7	15471.8	15442.9	13022.4
60°	5740.1	5657.6	5678.2	6049.3	7962.7	12329.6	15117.1	15368.7	14247.1	13385.2	10309.0
62.5°	4548.3	4478.2	4387.5	4346.3	4944.2	7682.3	10663.6	11018.3	9962.6	8680.2	6111.2
65°	3562.8	3521.6	3533.9	3698.9	3694.8	4358.7	5830.8	5686.5	4552.5	3364.9	1921.6
67.5°	2404.1	2465.9	2515.4	3014.4	3270.0	3035.0	2816.4	2734.0	1480.4	622.7	424.7
70°	1352.5	1360.8	1414.4	1884.5	2482.4	2354.6	1942.2	1942.2	738.1	226.8	243.3
72.5°	738.1	713.4	663.9	812.4	1105.1	1121.6	866.0	754.6	218.6	148.4	136.1
75°	358.8	354.6	305.1	251.5	239.2	197.9	152.6	140.2	99.0	94.8	82.5
77.5°	74.2	70.1	37.1	37.1	41.2	45.4	57.7	57.7	70.1	70.1	57.7
80°	0.0	0.0	4.1	16.5	28.9	41.2	49.5	49.5	57.7	57.7	45.4
82.5°	0.0	0.0	4.1	12.4	24.7	37.1	45.4	49.5	57.7	61.9	49.5
85°	0.0	0.0	0.0	8.2	20.6	28.9	24.7	24.7	20.6	16.5	8.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9768.8	9768.8	9768.8	9768.8	9768.8	9768.8	9768.8	9768.8	9768.8	9768.8	9768.8
2.5°	9624.5	9616.3	9426.6	9319.4	9125.5	8956.5	8820.4	8721.4	8721.4	8659.6	8601.8
5°	9352.3	9282.2	8878.1	8618.3	8251.3	7979.2	7793.6	7649.3	7422.5	7484.3	7241.1
7.5°	9014.2	8836.9	8300.8	7905.0	7397.8	7010.1	6614.3	6263.8	5925.6	5773.1	5855.5
10°	8651.3	8342.1	7620.4	6993.6	6362.7	5653.5	5191.6	4630.8	4284.4	4263.8	4173.1
12.5°	8267.8	7917.3	7039.0	6173.0	5344.2	4490.6	3785.5	3261.8	3026.7	2766.9	2816.4
15°	7979.2	7459.6	6391.6	5348.3	4247.3	3385.5	2676.2	2272.1	2049.4	1987.6	1967.0
17.5°	7665.8	7109.1	5731.8	4470.0	3331.9	2437.1	1925.7	1731.9	1645.3	1645.3	1632.9
20°	7340.0	6713.2	5076.2	3653.5	2498.9	1818.5	1542.2	1480.4	1476.3	1472.1	1472.1
22.5°	7125.6	6259.6	4482.4	2903.0	1884.5	1455.6	1340.2	1315.4	1331.9	1381.4	1381.4
25°	6898.8	5822.5	3826.7	2239.1	1459.8	1249.5	1183.5	1200.0	1241.2	1286.6	1270.1
27.5°	6667.9	5538.0	3208.2	1756.7	1195.8	1092.8	1068.0	1105.1	1150.5	1191.7	1179.4
30°	6614.3	5232.9	2622.6	1331.9	1026.8	952.6	969.0	1002.0	1047.4	1063.9	1080.4
32.5°	6696.7	4993.7	2148.4	1092.8	894.8	874.2	874.2	890.7	919.6	956.7	944.3
35°	6931.8	4857.6	1698.9	948.4	820.6	800.0	795.9	812.4	828.8	841.2	828.8
37.5°	7290.5	4750.4	1389.7	841.2	771.1	738.1	729.9	725.8	742.2	746.4	754.6
40°	7748.3	4808.1	1179.4	775.2	721.6	684.5	659.8	659.8	659.8	672.1	676.3
42.5°	8243.1	4886.5	1018.5	738.1	676.3	630.9	606.2	597.9	606.2	622.7	618.5
45°	8762.7	5039.0	915.4	680.4	635.0	577.3	544.3	536.1	556.7	589.7	585.6
47.5°	9249.3	5257.6	837.1	643.3	593.8	540.2	499.0	490.7	527.8	573.2	577.3
50°	9735.8	5637.0	808.2	614.4	564.9	503.1	466.0	457.7	499.0	556.7	569.1
52.5°	10296.6	6045.2	787.6	577.3	531.9	474.2	433.0	424.7	470.1	544.3	548.4
55°	10663.6	6391.6	771.1	511.3	470.1	428.9	395.9	391.7	441.2	507.2	523.7
57.5°	10234.8	5909.1	713.4	445.3	400.0	379.4	350.5	350.5	391.7	453.6	466.0
60°	7760.6	3888.6	507.2	358.8	338.1	325.8	313.4	313.4	346.4	391.7	395.9
62.5°	4544.2	2094.8	325.8	288.7	288.7	276.3	255.7	255.7	288.7	313.4	317.5
65°	1348.4	672.1	263.9	247.4	243.3	222.7	202.1	197.9	222.7	235.0	230.9
67.5°	387.6	309.3	218.6	206.2	202.1	169.1	156.7	152.6	156.7	148.4	144.3
70°	230.9	210.3	169.1	173.2	152.6	123.7	111.3	107.2	99.0	86.6	78.3
72.5°	127.8	127.8	123.7	132.0	107.2	82.5	70.1	57.7	45.4	37.1	33.0
75°	78.3	82.5	86.6	90.7	70.1	53.6	45.4	28.9	16.5	8.2	8.2
77.5°	53.6	57.7	61.9	66.0	57.7	49.5	37.1	20.6	4.1	0.0	0.0
80°	41.2	45.4	53.6	57.7	61.9	66.0	49.5	20.6	4.1	0.0	0.0
82.5°	45.4	49.5	61.9	57.7	57.7	57.7	45.4	20.6	4.1	0.0	0.0
85°	8.2	12.4	20.6	20.6	28.9	37.1	28.9	8.2	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)