

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: P533937

Luminaire Tested: **GALN-SA9B-827-U-T3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P533937  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-15)  
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-T3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22645 lumens  
Efficiency: N/A  
Efficacy: 62.2 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

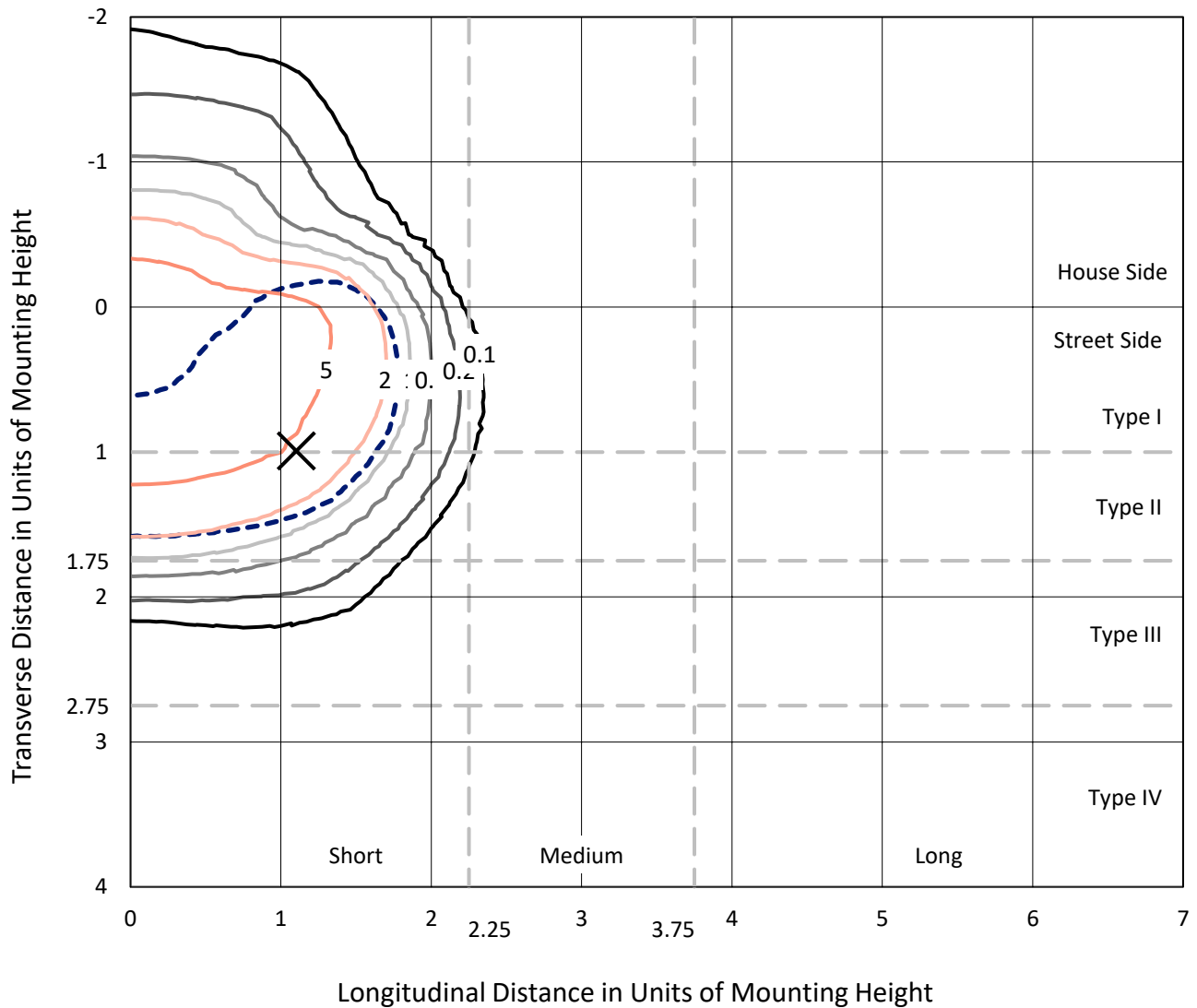
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

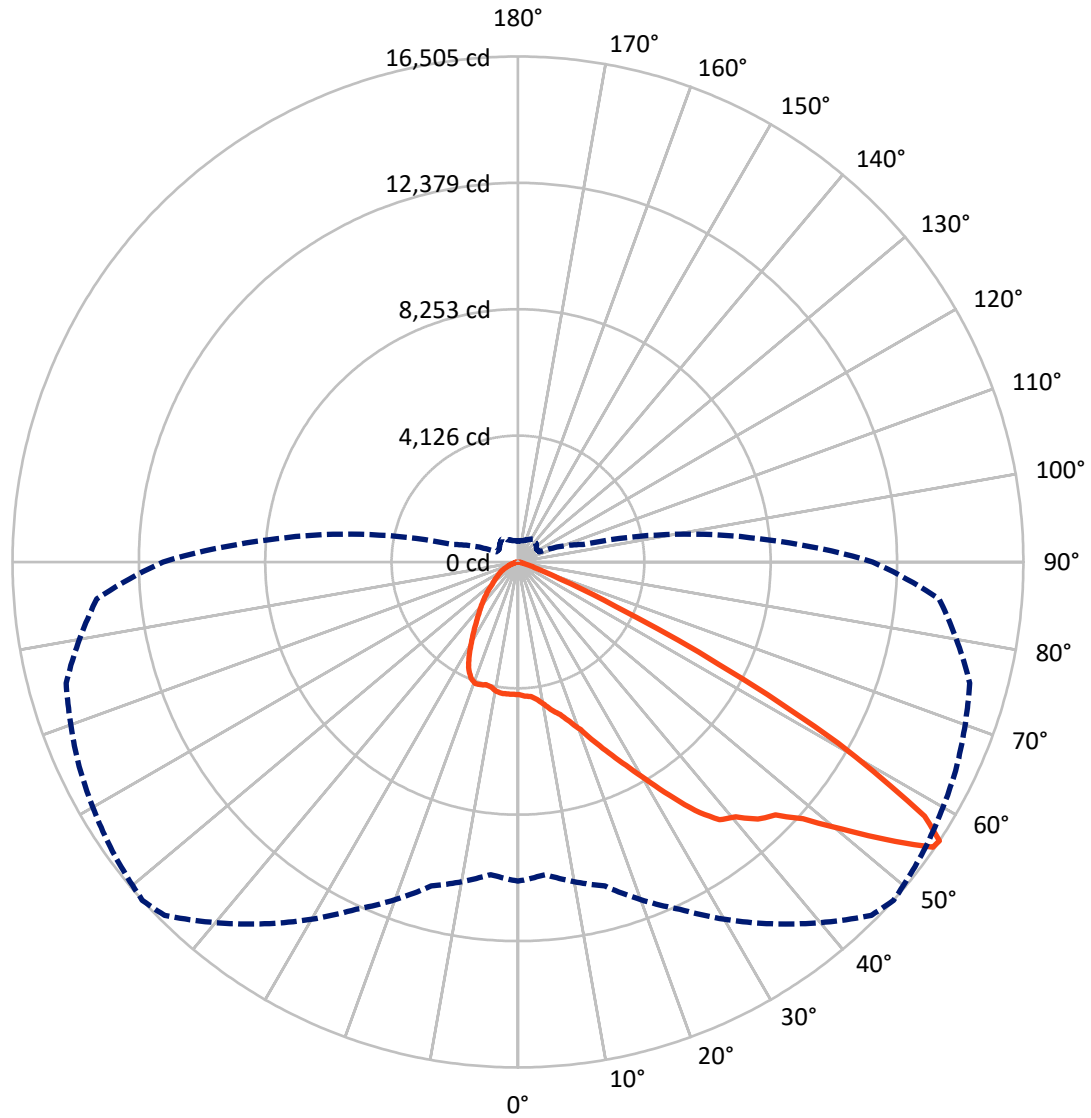
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 48-Deg Lateral    - - - Horizontal Cone Through 56-Deg Vertical

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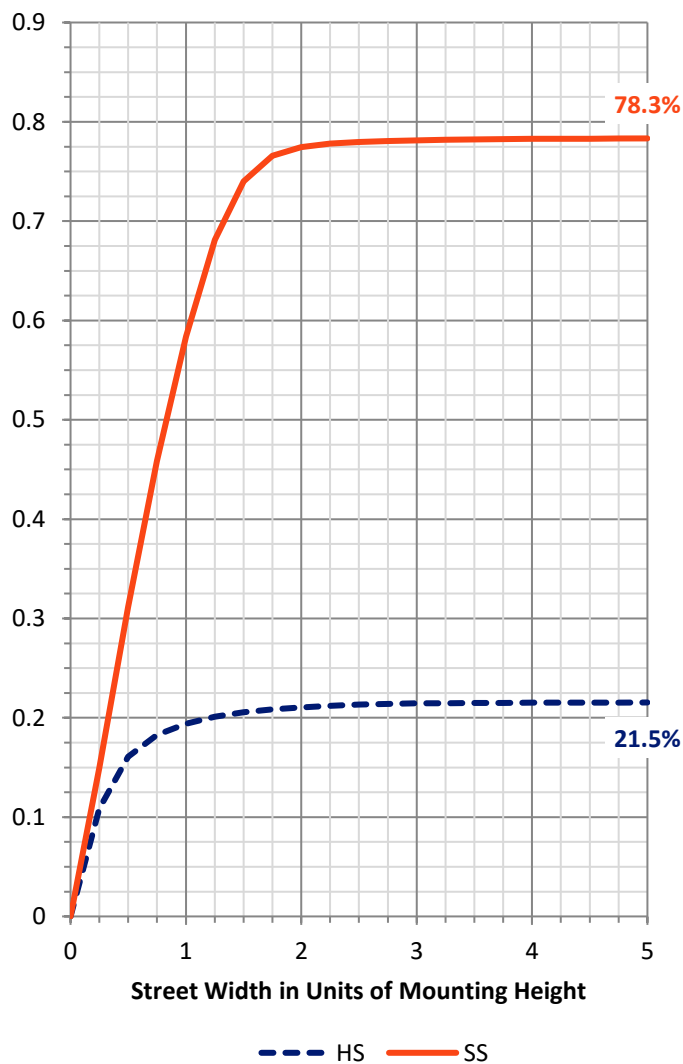
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4924.9	0.0	4924.9
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	17720.1	0.0	17720.1
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	22645.0	0.0	22645.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	421.3	1.9
10°-20°	1346.5	5.9
20°-30°	2442.2	10.8
30°-40°	3836.3	16.9
40°-50°	5596.4	24.7
50°-60°	6742.6	29.8
60°-70°	1974.2	8.7
70°-80°	250.4	1.1
80°-90°	35.1	0.2
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°	22645.0	100.0
0°-180°	22645.0	100.0

**Coefficient of Utilization**

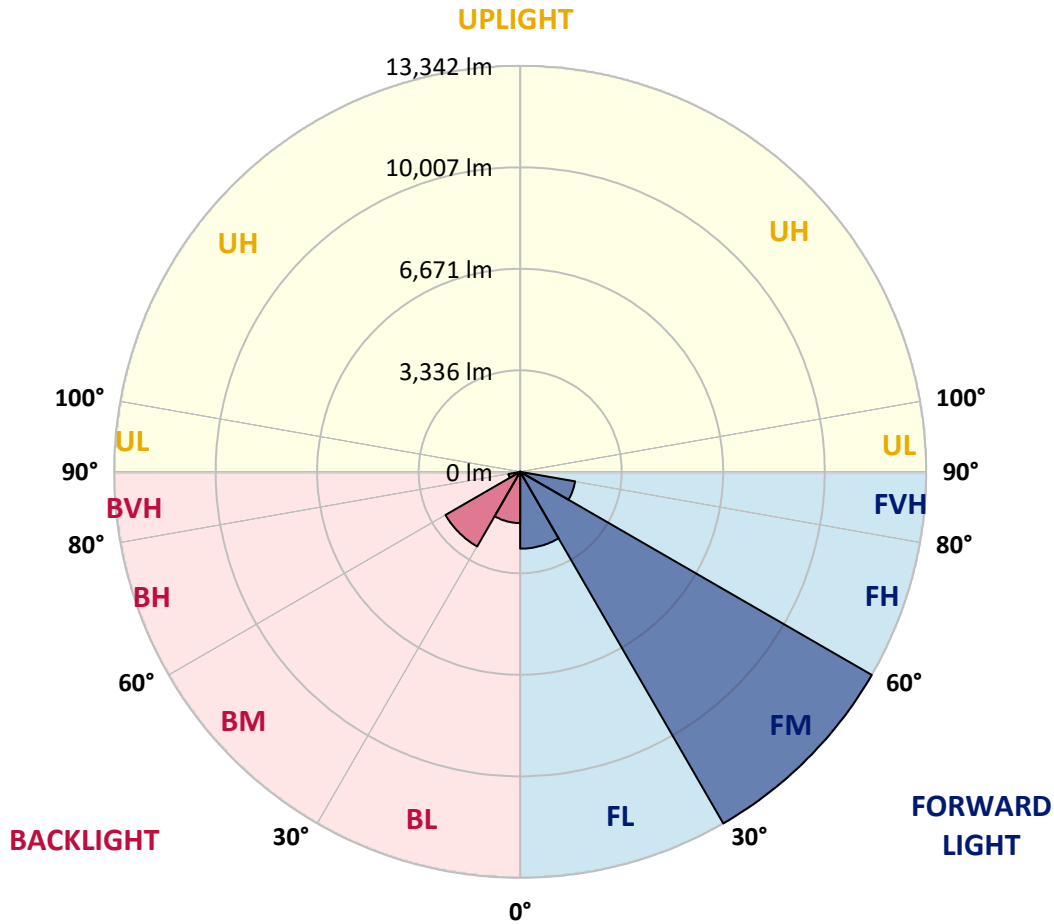


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2526.7	11.2			
FM (30°-60°)	13342.5	58.9			
FH (60°-80°)	1833.3	8.1			G2/5000
FVH (80°-90°)	17.6	0.1			G1/100
BL (0°-30°)	1683.3	7.4	B3/2500		
BM (30°-60°)	2832.8	12.5	B3/5000		
BH (60°-80°)	391.3	1.7	B1/500		G1/500
BVH (80°-90°)	17.5	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°	48°	55°	65°	75°	85°
0°	4325.2	4325.2	4325.2	4325.2	4325.2	4325.2	4325.2	4325.2	4325.2	4325.2	4325.2
2.5°	4403.5	4382.9	4382.9	4349.9	4387.1	4370.6	4382.9	4341.7	4382.9	4321.1	4370.6
5°	4424.2	4428.3	4411.8	4432.4	4432.4	4457.1	4415.9	4453.0	4473.6	4428.3	4407.7
7.5°	4531.4	4539.6	4535.5	4519.0	4552.0	4547.9	4543.7	4514.9	4523.1	4506.6	4481.9
10°	4741.6	4737.5	4758.1	4716.9	4692.2	4721.0	4729.3	4683.9	4650.9	4638.6	4560.2
12.5°	5046.8	4997.3	4968.4	4927.2	4939.6	4898.3	4972.5	4894.2	4877.7	4803.5	4725.2
15°	5294.1	5285.9	5290.0	5224.1	5149.8	5166.3	5166.3	5125.1	5100.4	5009.7	4898.3
17.5°	5801.3	5628.1	5665.2	5582.8	5520.9	5516.8	5479.7	5487.9	5422.0	5232.3	5063.3
20°	6197.1	6122.9	6065.2	5925.0	5830.2	5859.0	5842.5	5801.3	5780.7	5533.3	5294.1
22.5°	6551.7	6576.5	6481.6	6444.5	6312.6	6324.9	6357.9	6320.8	6164.1	5908.5	5553.9
25°	7050.6	7021.8	6893.9	6848.6	6724.9	6770.2	6898.1	6869.2	6770.2	6308.4	5755.9
27.5°	7640.2	7541.3	7566.0	7359.9	7240.3	7368.1	7520.7	7665.0	7384.6	6778.5	5995.1
30°	8056.7	7953.6	7945.3	7937.1	7908.2	8056.7	8234.0	8365.9	8139.1	7248.5	6390.9
32.5°	8262.8	8287.6	8357.7	8332.9	8584.4	8889.6	9075.1	9264.8	8980.3	8015.4	6914.6
35°	8811.2	8654.5	8811.2	8827.7	9087.5	9734.8	9969.8	10423.4	10353.3	9099.8	7553.6
37.5°	9132.8	9120.5	9141.1	9297.7	9549.3	10349.2	10683.1	11033.6	10901.7	9751.3	8349.4
40°	9664.7	9697.7	9693.6	9813.1	10089.4	10811.0	10947.0	11231.5	11243.9	10654.3	9520.4
42.5°	10518.2	10386.3	10299.7	10423.4	10811.0	11210.9	11483.0	11425.3	11833.5	11751.0	11025.4
45°	11285.1	11363.5	11235.6	11441.8	11582.0	11796.4	11788.1	11911.8	12431.4	12823.1	12159.2
47.5°	12002.5	12052.0	12113.9	12254.1	12559.2	12592.2	12522.1	12468.5	13185.9	13590.0	13037.5
50°	12431.4	12476.7	12765.3	13016.8	13585.8	13660.1	13701.3	13565.2	14051.8	14097.1	13866.2
52.5°	12315.9	12365.4	12769.5	13598.2	14505.3	15185.6	15061.9	14831.0	14802.2	14979.5	14633.1
55°	11293.4	11248.0	11804.6	13095.2	14793.9	16426.7	16443.2	16199.9	15734.0	15614.4	14517.7
56°	10423.4	10246.1	10955.3	12513.8	14422.8	16319.5	16505.0	16245.3	15808.2	15272.2	13804.4
57.5°	8539.1	8708.1	9413.2	10703.7	13140.5	15548.5	15655.7	15593.8	15264.0	14365.1	12146.9
60°	4708.7	5005.5	5628.1	7207.3	9355.5	11932.5	12019.0	12522.1	12583.9	11000.6	8357.7
62.5°	1999.7	1966.8	2614.1	3776.8	5327.1	7203.2	7364.0	7879.4	7974.2	6341.4	4193.3
65°	812.3	857.6	1183.3	1900.8	2816.1	3282.0	3508.8	3677.9	3991.2	2618.2	1546.2
67.5°	536.0	531.9	696.8	1084.4	1517.3	1463.7	1463.7	1546.2	1430.7	1067.9	668.0
70°	383.5	395.8	498.9	750.4	944.2	700.9	672.1	643.2	729.8	705.1	540.1
72.5°	251.5	268.0	334.0	449.4	490.7	383.5	383.5	461.8	602.0	569.0	441.2
75°	164.9	169.0	206.2	259.8	243.3	197.9	218.5	309.2	437.1	420.6	313.4
77.5°	111.3	115.4	140.2	169.0	136.1	111.3	119.6	156.7	214.4	214.4	164.9
80°	41.2	45.4	57.7	53.6	61.8	78.3	86.6	107.2	127.8	127.8	111.3
82.5°	0.0	4.1	12.4	28.9	45.4	61.8	70.1	82.5	94.8	107.2	103.1
85°	0.0	4.1	12.4	20.6	33.0	37.1	41.2	28.9	24.7	24.7	20.6
87.5°	0.0	0.0	4.1	4.1	4.1	4.1	4.1	4.1	8.2	4.1	4.1
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°	4325.2	4325.2	4325.2	4325.2	4325.2	4325.2	4325.2	4325.2	4325.2	4325.2	4325.2
2.5°	4325.2	4321.1	4321.1	4308.7	4333.5	4321.1	4329.3	4325.2	4271.6	4312.8	4284.0
5°	4370.6	4399.4	4354.1	4345.8	4312.8	4325.2	4325.2	4284.0	4321.1	4317.0	4308.7
7.5°	4486.0	4436.5	4387.1	4337.6	4329.3	4317.0	4271.6	4255.1	4284.0	4251.0	4300.5
10°	4535.5	4543.7	4469.5	4403.5	4341.7	4255.1	4193.3	4156.2	4110.8	4160.3	4189.1
12.5°	4762.3	4679.8	4552.0	4448.9	4238.6	4152.0	4090.2	4073.7	4152.0	4168.5	4139.7
15°	4840.6	4828.2	4663.3	4432.4	4213.9	4110.8	4123.2	4090.2	4098.4	4057.2	4065.4
17.5°	5001.4	4861.2	4667.4	4378.8	4209.8	4185.0	4110.8	3978.9	3904.6	3871.7	3900.5
20°	5178.7	5042.6	4762.3	4399.4	4246.9	4180.9	3937.6	3776.8	3624.3	3541.8	3545.9
22.5°	5335.4	5166.3	4721.0	4407.7	4279.8	4007.7	3715.0	3397.5	3207.8	3080.0	3084.1
25°	5525.0	5285.9	4737.5	4424.2	4193.3	3731.5	3310.9	3001.7	2774.9	2688.3	2717.2
27.5°	5632.2	5360.1	4828.2	4461.3	3966.5	3339.8	2886.2	2597.6	2465.7	2424.4	2420.3
30°	5953.9	5525.0	4939.6	4387.1	3587.2	2919.2	2498.6	2321.3	2193.5	2156.4	2164.7
32.5°	6432.1	5826.0	5083.9	4193.3	3199.6	2544.0	2247.1	2115.2	1995.6	1925.5	1917.3
35°	6832.1	6341.4	5236.4	3892.3	2750.2	2255.4	2069.8	1904.9	1723.5	1645.1	1624.5
37.5°	7594.9	6922.8	5203.4	3438.7	2321.3	2041.0	1880.2	1678.1	1521.4	1414.2	1401.9
40°	8609.2	7603.1	5042.6	2886.2	2003.9	1851.3	1678.1	1484.3	1290.6	1199.8	1191.6
42.5°	9842.0	8436.0	4749.9	2325.5	1686.4	1661.6	1505.0	1282.3	1109.1	1043.2	1047.3
45°	10843.9	9149.3	4453.0	1867.8	1451.4	1476.1	1340.0	1129.7	1010.2	956.6	956.6
47.5°	11734.5	9631.7	4131.4	1542.1	1232.8	1290.6	1171.0	1047.3	944.2	903.0	894.7
50°	12592.2	10122.4	3809.8	1249.3	1051.4	1109.1	1096.8	997.8	915.3	865.9	870.0
52.5°	13128.2	10200.7	3401.6	1022.5	919.5	985.4	1026.7	936.0	845.2	816.4	808.1
55°	12472.6	9190.5	2638.8	841.1	779.3	865.9	944.2	841.1	771.0	721.6	717.4
56°	11590.2	8217.5	2205.9	775.2	738.0	832.9	915.3	804.0	725.7	696.8	676.2
57.5°	9813.1	6724.9	1628.7	688.6	684.4	775.2	870.0	766.9	676.2	651.5	651.5
60°	6118.8	3785.1	985.4	577.2	593.7	688.6	783.4	684.4	602.0	602.0	614.4
62.5°	2787.3	1575.1	597.9	490.7	511.3	593.7	696.8	618.5	573.1	618.5	626.7
65°	948.3	680.3	432.9	391.7	404.1	490.7	597.9	626.7	622.6	651.5	668.0
67.5°	531.9	437.1	362.8	325.7	317.5	362.8	490.7	626.7	602.0	589.6	597.9
70°	449.4	371.1	321.6	288.6	276.3	292.7	379.3	474.2	424.7	412.3	404.1
72.5°	362.8	309.2	280.4	259.8	222.7	189.7	173.2	181.4	202.0	214.4	235.0
75°	255.6	235.0	235.0	210.3	160.8	119.6	94.8	78.3	53.6	37.1	41.2
77.5°	144.3	144.3	148.4	127.8	103.1	78.3	57.7	41.2	20.6	8.2	4.1
80°	99.0	107.2	115.4	103.1	86.6	70.1	49.5	28.9	12.4	0.0	0.0
82.5°	99.0	111.3	119.6	103.1	86.6	66.0	49.5	28.9	12.4	4.1	0.0
85°	20.6	24.7	28.9	33.0	49.5	49.5	37.1	24.7	12.4	4.1	0.0
87.5°	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	4.1	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)