

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: P652388

Luminaire Tested: **GALN-SA5B-840-U-SL3-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652388  
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-SA5B-840-U-SL3-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 80 CRI, 4000K, 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: 14014.4 lumens  
Efficiency: N/A  
Efficacy: 68.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G1

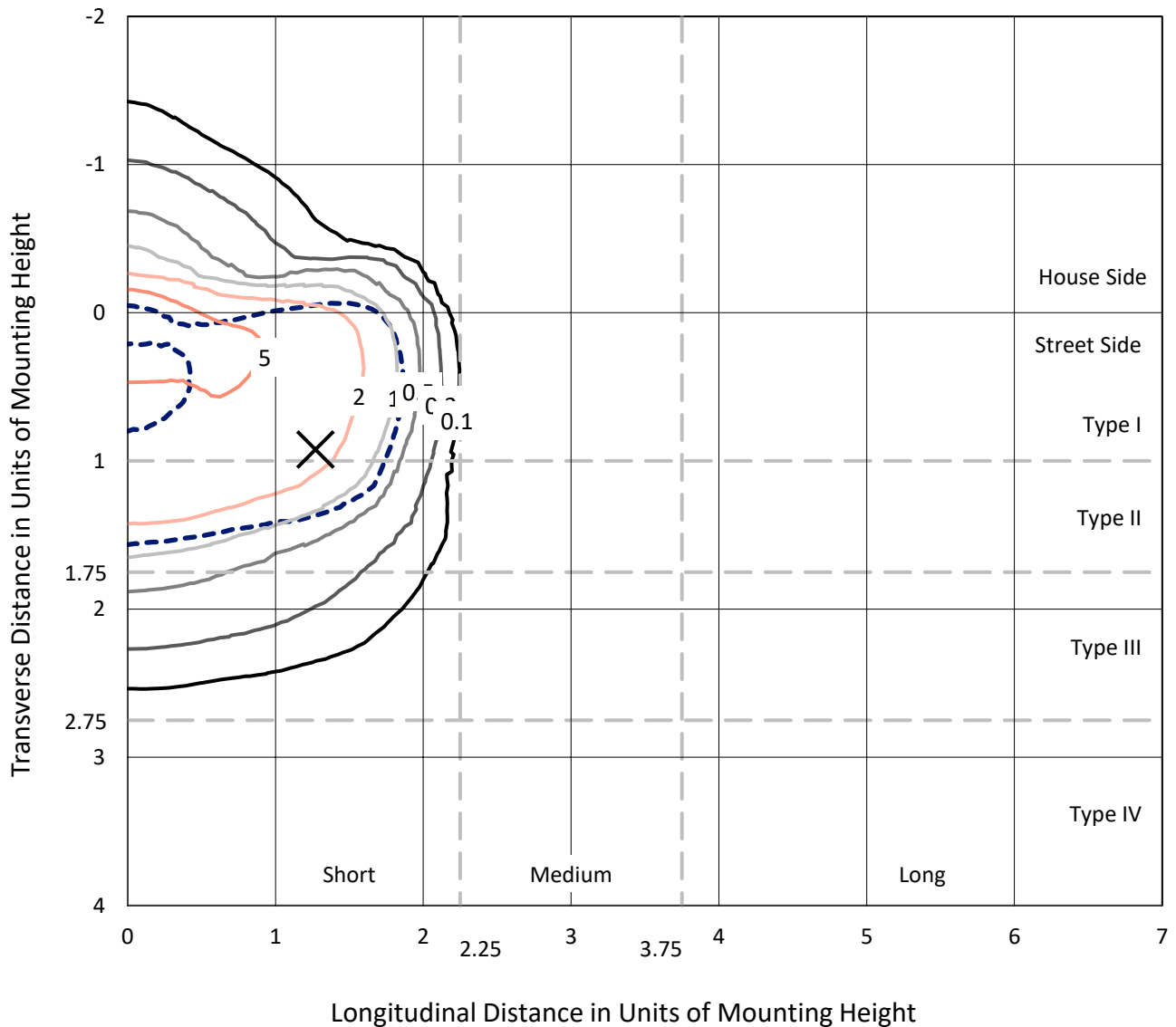
Input Watts (W): 204  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

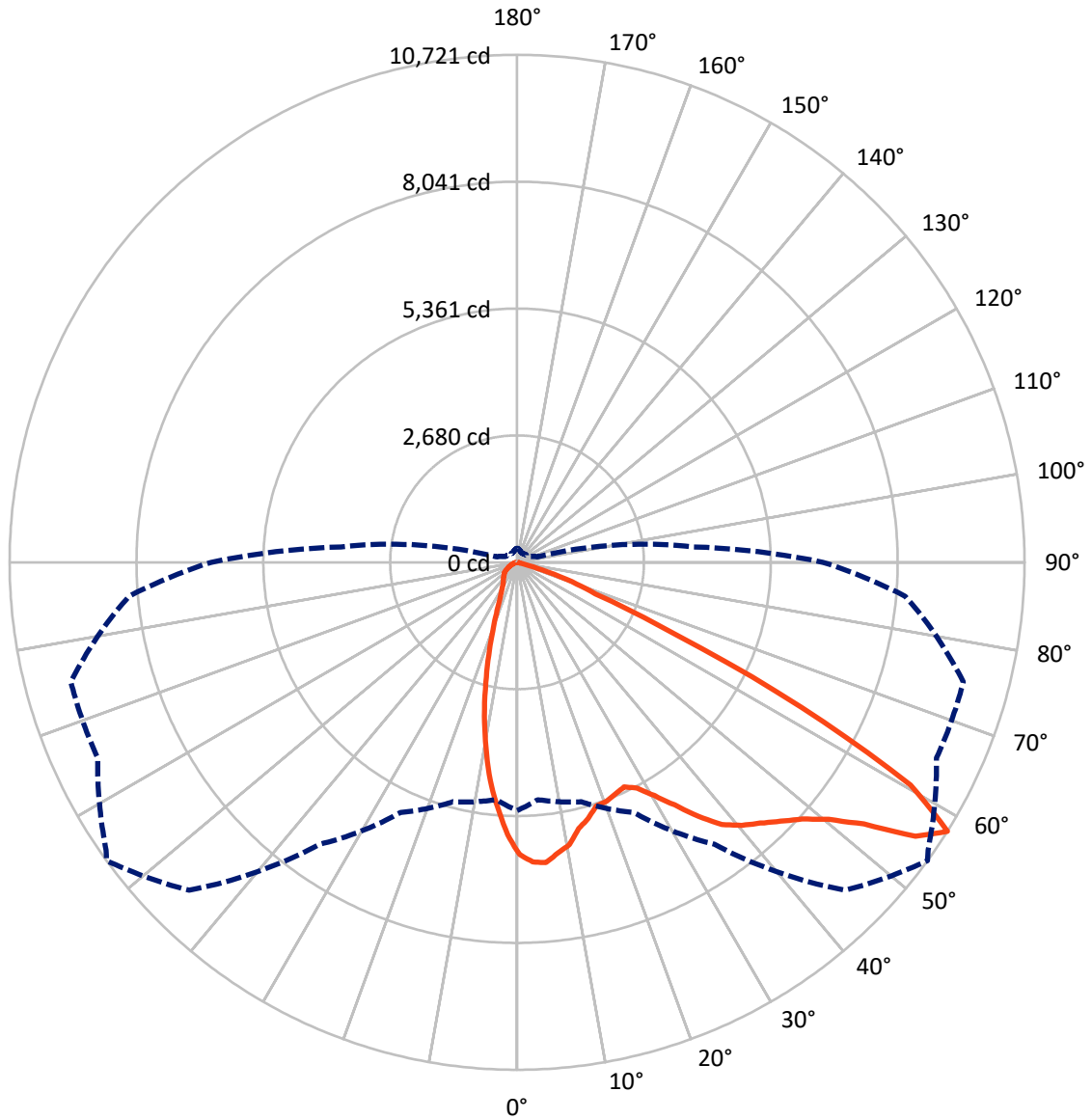
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.9 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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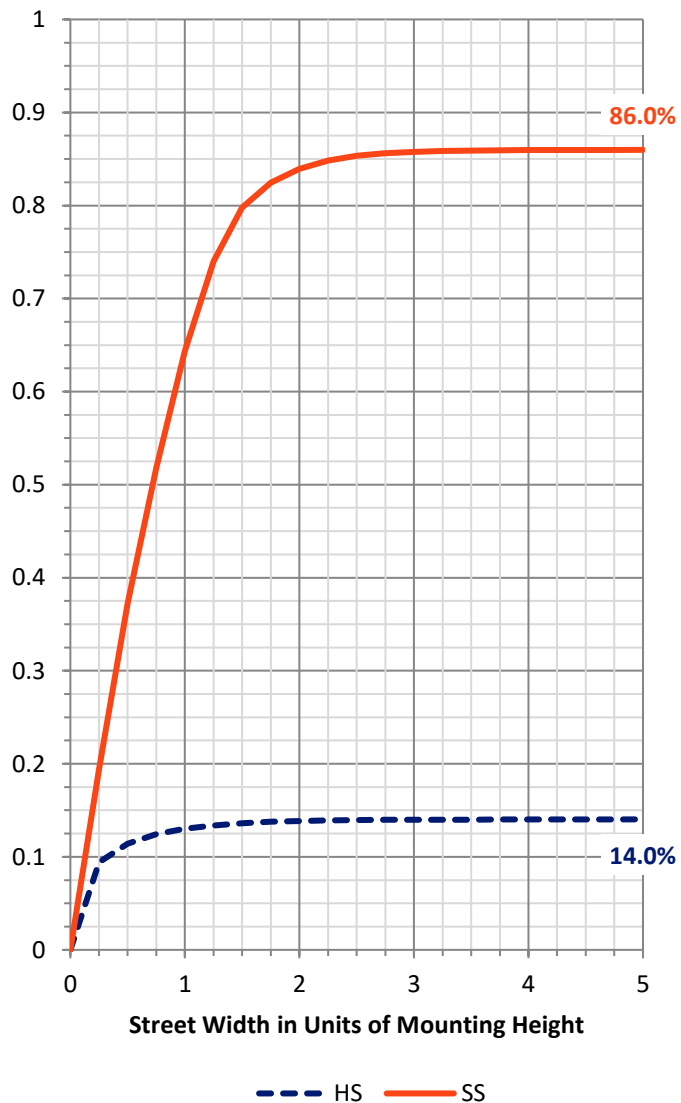
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1980.5	0.0	1980.5
	% Fixture	14.1	0.0	14.1
<b>Street Side</b>	Lumens	12034.0	0.0	12034.0
	% Fixture	85.9	0.0	85.9
<b>Total</b>	Lumens	14014.4	0.0	14014.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	516.6	3.7
10°-20°	1103.0	7.9
20°-30°	1461.6	10.4
30°-40°	2124.2	15.2
40°-50°	3149.9	22.5
50°-60°	3938.8	28.1
60°-70°	1553.7	11.1
70°-80°	154.7	1.1
80°-90°	12.0	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°	14014.4	100.0
0°-180°	14014.4	100.0

**Coefficient of Utilization**



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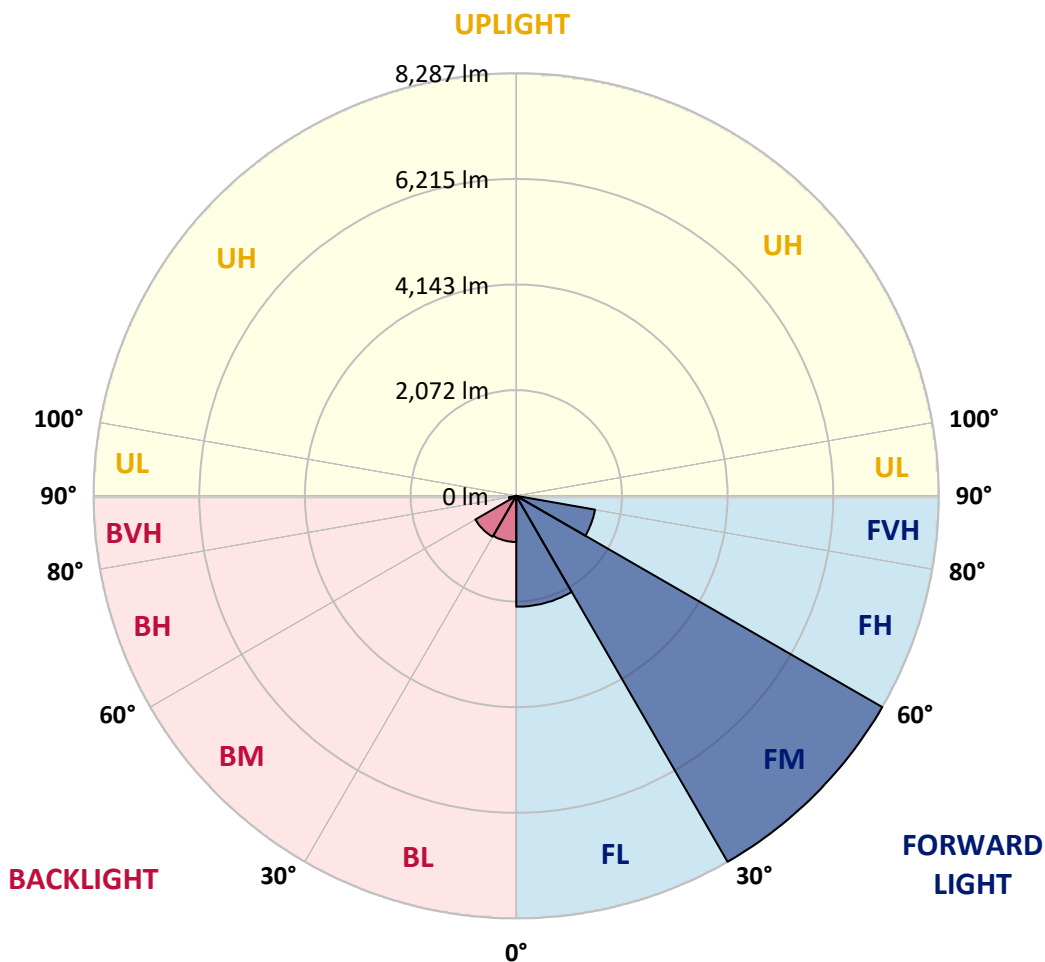
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2175.4	15.5			
FM (30°-60°)	8286.7	59.1			
FH (60°-80°)	1566.3	11.2			G1/1800
FVH (80°-90°)	5.5	0.0			G0/10
BL (0°-30°)	905.8	6.5	B2/1000		
BM (30°-60°)	926.1	6.6	B1/1000		
BH (60°-80°)	142.0	1.0	B1/500		G1/500
BVH (80°-90°)	6.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	6173.5	6173.5	6173.5	6173.5	6173.5	6173.5	6173.5	6173.5	6173.5	6173.5	6173.5
2.5°	6533.1	6465.4	6470.7	6447.2	6415.9	6439.4	6337.7	6361.2	6358.5	6220.5	6129.2
5°	6369.0	6442.0	6366.4	6428.9	6369.0	6434.2	6371.6	6324.7	6249.1	6147.5	5978.1
7.5°	6090.2	6019.8	6040.7	6118.8	6131.8	6277.8	6199.6	6259.6	6228.3	6027.6	5795.7
10°	5529.8	5514.3	5618.5	5722.7	5850.4	6006.8	6066.7	6032.8	6009.4	5933.8	5623.7
12.5°	5099.9	5144.1	5141.5	5313.6	5529.8	5618.5	5774.8	5769.6	5900.0	5759.2	5462.1
15°	4690.8	4714.2	4823.6	4930.5	5170.2	5423.0	5615.9	5641.9	5798.3	5699.3	5337.0
17.5°	4440.6	4406.7	4492.7	4620.4	4865.4	5196.3	5410.0	5472.6	5686.3	5665.4	5193.7
20°	4193.0	4193.0	4263.4	4414.5	4638.6	5011.3	5391.7	5373.5	5686.3	5626.3	5039.9
22.5°	4109.6	4151.3	4169.5	4284.2	4550.1	4870.6	5313.6	5347.4	5730.5	5608.0	4972.2
25°	4224.3	4169.5	4174.7	4266.0	4516.2	4802.8	5256.2	5331.9	5811.3	5699.3	4917.5
27.5°	4242.5	4297.3	4312.9	4375.4	4542.2	4823.6	5399.6	5553.3	6012.0	5913.0	4933.1
30°	4401.5	4456.2	4453.6	4560.4	4675.1	4993.0	5720.1	5751.3	6426.3	6181.3	5029.5
32.5°	4594.3	4651.7	4669.9	4795.0	4886.2	5303.2	6111.0	6191.8	6825.1	6603.5	5282.3
35°	4834.1	4813.2	4896.6	5021.7	5217.1	5756.6	6587.9	6723.4	7255.1	7150.8	5542.9
37.5°	5133.8	5107.7	5188.5	5391.7	5657.6	6293.5	7028.3	7116.9	7567.7	7659.0	6025.0
40°	5344.8	5355.2	5600.2	5873.9	6155.3	6804.2	7307.1	7393.1	7786.7	8133.2	6389.8
42.5°	5696.7	5761.8	6056.3	6389.8	6684.4	7187.3	7533.8	7617.3	7888.2	8513.7	6882.4
45°	6207.4	6178.7	6504.5	6877.2	7202.9	7586.0	7802.3	7773.6	7948.2	8891.6	7192.5
47.5°	6864.2	6869.4	7085.6	7403.6	7742.3	7932.6	8101.9	8000.3	8073.3	9290.3	7606.8
50°	7312.3	7351.4	7526.0	7851.8	8021.2	8313.0	8529.3	8466.8	8443.3	9530.0	7867.4
52.5°	7427.0	7544.3	7638.1	8044.7	8440.7	8902.0	9178.3	9311.1	8894.2	9610.8	8198.4
55°	6561.8	6666.1	6997.0	7554.7	8599.7	9834.9	10215.4	10218.0	9483.1	9970.5	8430.4
57.5°	5245.8	5034.7	5238.0	5829.6	7270.7	9795.8	10721.0	10598.5	9777.6	9759.4	8229.7
60°	3627.5	3575.4	3588.4	3822.9	5032.1	7791.9	9553.5	9712.5	9003.7	8458.9	6514.9
62.5°	2874.4	2830.0	2772.8	2746.7	3124.6	4854.9	6739.0	6963.1	6296.1	5485.6	3862.0
65°	2251.5	2225.5	2233.3	2337.6	2335.0	2754.5	3684.8	3593.6	2877.0	2126.5	1214.4
67.5°	1519.3	1558.4	1589.7	1904.9	2066.5	1918.0	1779.9	1727.8	935.5	393.5	268.4
70°	854.8	860.0	893.8	1190.9	1568.8	1488.0	1227.4	1227.4	466.5	143.3	153.7
72.5°	466.5	450.9	419.6	513.3	698.4	708.8	547.2	476.9	138.1	93.9	86.0
75°	226.7	224.1	192.8	158.9	151.1	125.1	96.5	88.6	62.6	60.0	52.1
77.5°	46.9	44.3	23.5	23.5	26.1	28.7	36.5	36.5	44.3	44.3	36.5
80°	0.0	0.0	2.6	10.4	18.2	26.1	31.3	31.3	36.5	36.5	28.7
82.5°	0.0	0.0	2.6	7.8	15.6	23.5	28.7	31.3	36.5	39.1	31.3
85°	0.0	0.0	0.0	5.2	13.0	18.2	15.6	15.6	13.0	10.4	5.2
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°	6173.5	6173.5	6173.5	6173.5	6173.5	6173.5	6173.5	6173.5	6173.5	6173.5	6173.5
2.5°	6082.4	6077.2	5957.2	5889.5	5767.0	5660.2	5574.1	5511.7	5511.7	5472.6	5436.1
5°	5910.4	5866.1	5610.6	5446.5	5214.5	5042.6	4925.3	4834.1	4690.8	4729.9	4576.0
7.5°	5696.7	5584.6	5245.8	4995.6	4675.1	4430.1	4179.9	3958.5	3744.8	3648.3	3700.5
10°	5467.3	5271.9	4815.8	4419.7	4021.0	3572.8	3280.9	2926.5	2707.6	2694.6	2637.2
12.5°	5225.0	5003.4	4448.4	3901.1	3377.4	2837.9	2392.3	2061.3	1912.8	1748.6	1779.9
15°	5042.6	4714.2	4039.2	3380.0	2684.1	2139.5	1691.3	1435.9	1295.1	1256.1	1243.1
17.5°	4844.5	4492.7	3622.3	2824.8	2105.6	1540.1	1217.0	1094.5	1039.8	1039.8	1032.0
20°	4638.6	4242.5	3207.9	2308.9	1579.2	1149.2	974.6	935.5	932.9	930.3	930.3
22.5°	4503.1	3955.9	2832.7	1834.6	1190.9	919.9	847.0	831.3	841.8	873.0	873.0
25°	4359.8	3679.6	2418.4	1415.1	922.5	789.6	747.9	758.3	784.4	813.1	802.7
27.5°	4213.8	3499.8	2027.5	1110.1	755.7	690.5	675.0	698.4	727.0	753.1	745.3
30°	4179.9	3307.0	1657.4	841.8	648.9	602.0	612.4	633.3	662.0	672.4	682.7
32.5°	4232.1	3155.9	1357.7	690.5	565.5	552.5	552.5	562.9	581.1	604.6	596.8
35°	4380.6	3069.8	1073.6	599.4	518.6	505.5	502.9	513.3	523.8	531.6	523.8
37.5°	4607.3	3002.1	878.2	531.6	487.3	466.5	461.3	458.7	469.1	471.7	476.9
40°	4896.6	3038.5	745.3	489.9	456.1	432.6	417.0	417.0	417.0	424.8	427.4
42.5°	5209.3	3088.1	643.7	466.5	427.4	398.7	383.1	377.9	383.1	393.5	390.9
45°	5537.6	3184.5	578.5	430.0	401.3	364.8	344.0	338.8	351.8	372.6	370.0
47.5°	5845.2	3322.6	529.0	406.5	375.3	341.4	315.3	310.1	333.5	362.2	364.8
50°	6152.7	3562.4	510.7	388.3	357.0	317.9	294.4	289.3	315.3	351.8	359.6
52.5°	6507.1	3820.3	497.7	364.8	336.1	299.6	273.7	268.4	297.0	344.0	346.6
55°	6739.0	4039.2	487.3	323.1	297.0	271.1	250.2	247.6	278.9	320.5	330.9
57.5°	6468.0	3734.4	450.9	281.5	252.8	239.8	221.5	221.5	247.6	286.7	294.4
60°	4904.5	2457.4	320.5	226.7	213.7	205.9	198.1	198.1	218.9	247.6	250.2
62.5°	2871.8	1323.8	205.9	182.4	182.4	174.6	161.6	161.6	182.4	198.1	200.7
65°	852.2	424.8	166.8	156.3	153.7	140.7	127.7	125.1	140.7	148.5	145.9
67.5°	245.0	195.4	138.1	130.3	127.7	106.8	99.0	96.5	99.0	93.9	91.2
70°	145.9	132.9	106.8	109.4	96.5	78.2	70.4	67.8	62.6	54.7	49.5
72.5°	80.8	80.8	78.2	83.4	67.8	52.1	44.3	36.5	28.7	23.5	20.9
75°	49.5	52.1	54.7	57.4	44.3	33.9	28.7	18.2	10.4	5.2	5.2
77.5°	33.9	36.5	39.1	41.7	36.5	31.3	23.5	13.0	2.6	0.0	0.0
80°	26.1	28.7	33.9	36.5	39.1	41.7	31.3	13.0	2.6	0.0	0.0
82.5°	28.7	31.3	39.1	36.5	36.5	36.5	28.7	13.0	2.6	0.0	0.0
85°	5.2	7.8	13.0	13.0	18.2	23.5	18.2	5.2	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)