

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: P300762

Luminaire Tested: **GLNA-AF-08-LED-E1-AFL-7027-600-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300762  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLNA-AF-08-LED-E1-AFL-7027-600-HSS  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 2700K CCT 600mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline WITH HOUSESIDE SHIELD OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20305.9 lumens  
Efficiency: N/A  
Efficacy: 79.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 257  
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: 25 FT

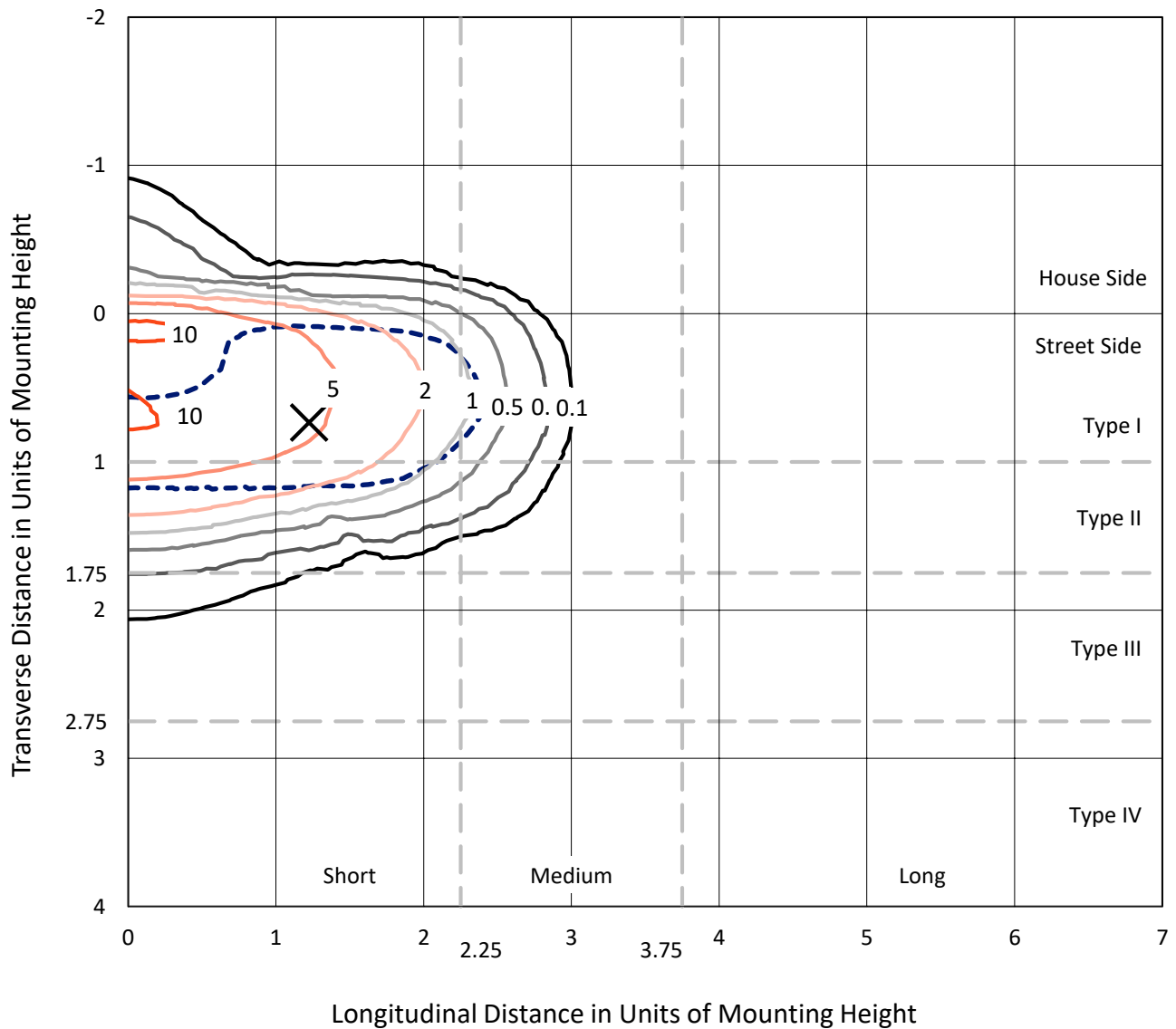


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

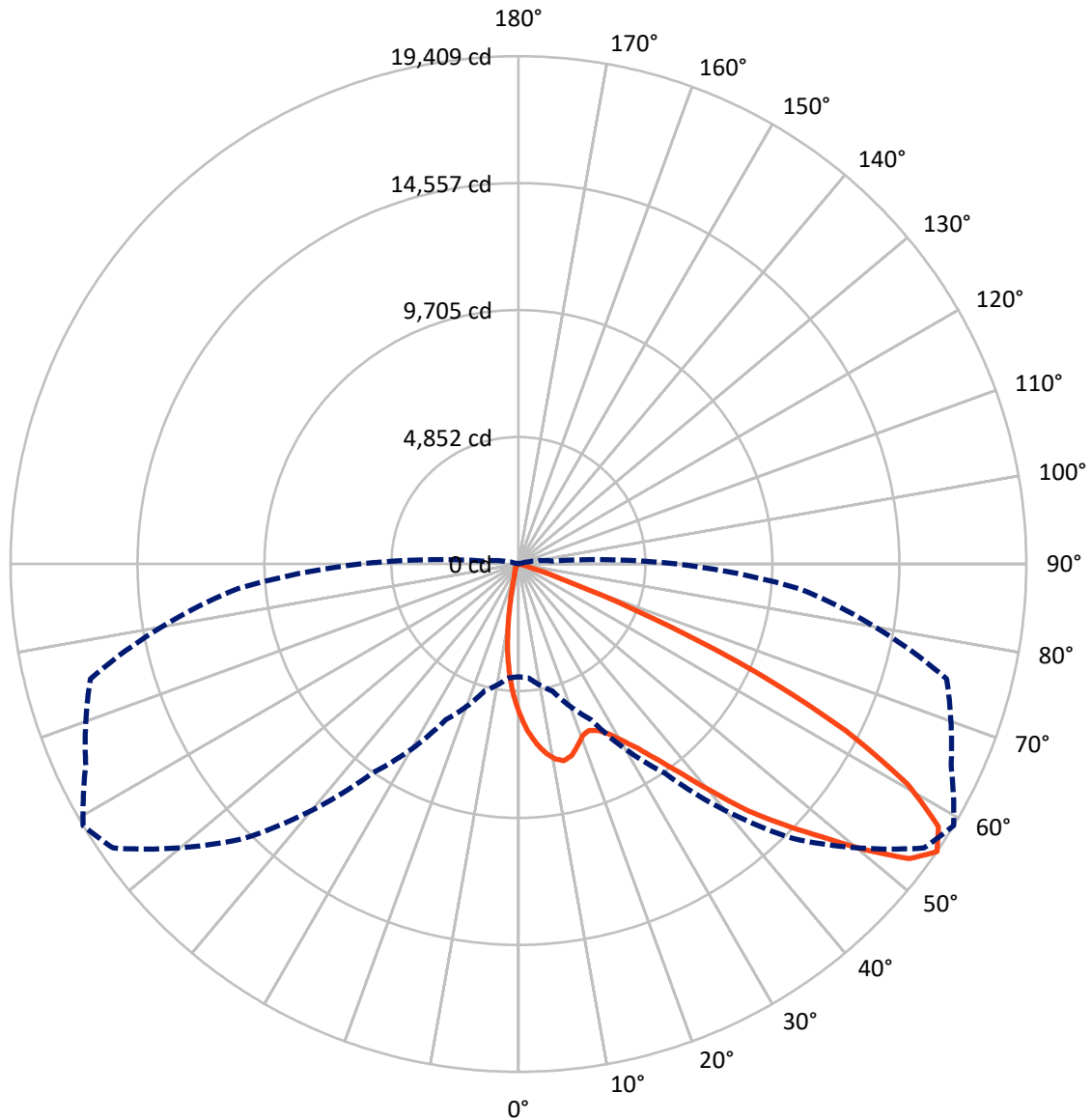


Based on 25 foot mounting height. Maximum calculated value = 11.4 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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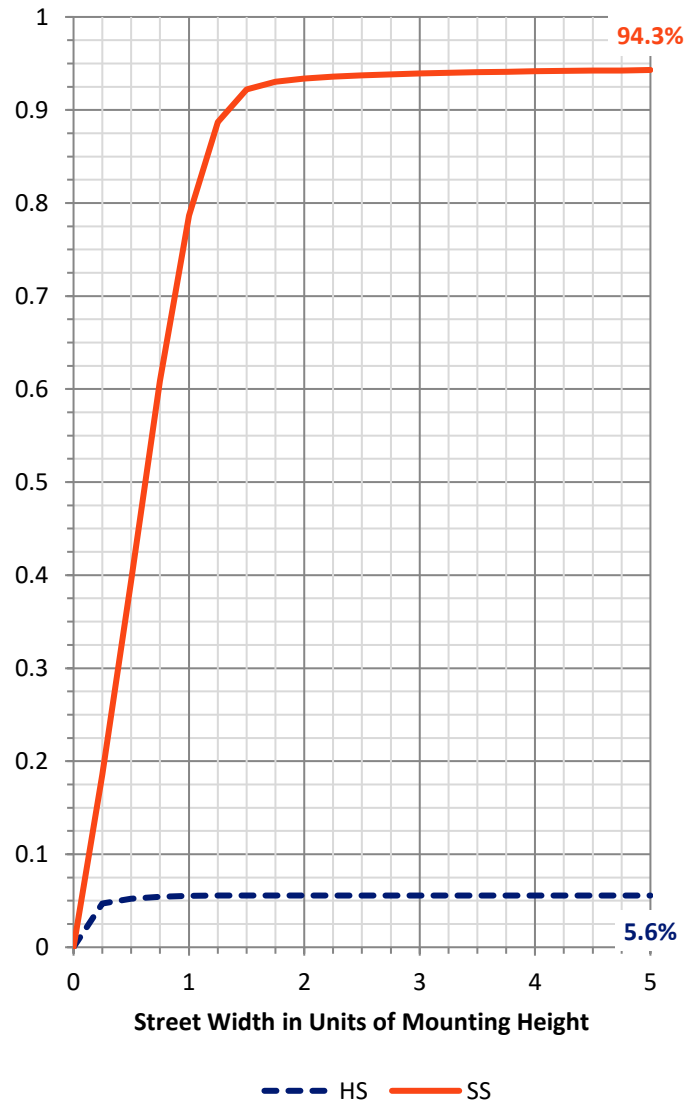
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1134.2	0.0	1134.2
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	19171.7	0.0	19171.7
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	20305.9	0.0	20305.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	478.8	2.4
10°-20°	1146.3	5.6
20°-30°	1950.6	9.6
30°-40°	3354.6	16.5
40°-50°	5179.2	25.5
50°-60°	5206.7	25.6
60°-70°	2670.0	13.1
70°-80°	289.4	1.4
80°-90°	30.2	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°	20305.9	100.0
0°-180°	20305.9	100.0



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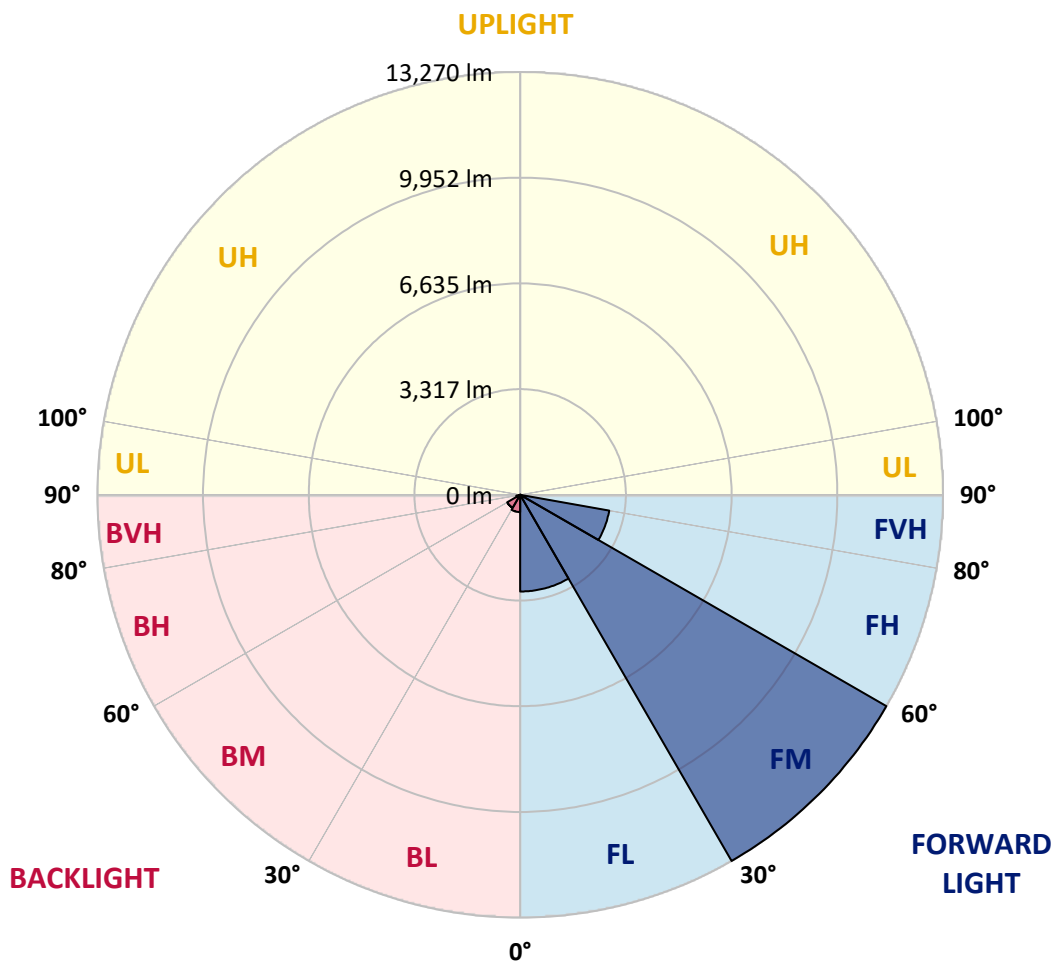
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3034.4	14.9			
FM	(30°-60°)	13269.8	65.3			
FH	(60°-80°)	2837.9	14.0			G2/5000
FVH	(80°-90°)	29.6	0.1			G1/100
BL	(0°-30°)	541.4	2.7	B2/1000		
BM	(30°-60°)	470.7	2.3	B1/1000		
BH	(60°-80°)	121.5	0.6	B1/500		G1/500
BVH	(80°-90°)	0.6	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	5716.0	5716.0	5716.0	5716.0	5716.0	5716.0	5716.0	5716.0	5716.0	5716.0	5716.0
2.5°	6763.4	6691.5	6669.9	6655.5	6589.6	6506.9	6394.3	6341.6	6233.7	6060.0	5846.7
5°	7382.9	7369.7	7321.8	7295.4	7224.7	7107.3	6927.6	6841.3	6669.9	6377.5	5995.3
7.5°	7112.1	7194.8	7260.7	7370.9	7509.9	7505.1	7354.2	7264.3	7072.5	6686.7	6160.6
10°	6066.0	6133.1	6240.9	6491.4	7001.8	7452.4	7629.8	7565.1	7411.7	6970.7	6320.0
12.5°	5861.0	5853.8	5873.0	5946.1	6213.3	6855.7	7583.0	7713.7	7682.5	7230.7	6471.0
15°	5970.1	5961.7	5959.3	5984.5	6049.2	6320.0	7231.9	7607.0	7847.9	7471.6	6599.2
17.5°	6275.7	6239.7	6220.5	6200.2	6181.0	6248.1	6810.1	7308.6	7873.0	7682.5	6705.9
20°	6799.3	6739.4	6668.7	6553.7	6445.8	6412.3	6632.8	7001.8	7783.2	7843.1	6775.4
22.5°	7457.2	7380.5	7258.3	7048.6	6829.3	6702.3	6720.2	6904.8	7648.9	8018.0	6807.7
25°	8196.6	8098.3	7935.3	7644.2	7321.8	7096.5	6979.1	7043.8	7587.8	8222.9	6844.9
27.5°	8988.7	8879.6	8666.3	8269.7	7904.2	7599.8	7360.1	7351.8	7692.1	8491.4	6904.8
30°	9773.6	9756.8	9478.8	9059.4	8575.3	8205.0	7859.9	7815.5	7983.3	8862.9	7023.4
32.5°	10820.9	10695.1	10354.8	9923.4	9365.0	8920.4	8511.7	8408.7	8430.3	9295.5	7206.8
35°	12141.5	12003.7	11524.3	10928.8	10304.4	9779.6	9327.8	9187.6	9134.9	10003.7	7515.9
37.5°	12994.7	12992.3	12691.5	12085.2	11415.3	10836.5	10345.2	10181.0	10074.4	10859.3	7995.3
40°	13017.5	13073.8	13113.3	13107.3	12630.4	12097.2	11661.0	11458.4	11210.4	12002.5	8614.8
42.5°	12318.8	12463.8	12812.6	13404.5	13687.3	13475.2	13107.3	12908.4	12539.3	13226.0	9369.8
45°	11374.6	11475.2	12085.2	13175.6	14260.1	14841.3	14560.9	14205.0	13718.5	14502.2	10046.8
47.5°	10951.5	10969.5	11363.8	12560.9	14303.3	15960.6	16130.7	15551.9	14789.8	15530.4	10576.5
50°	9687.3	9719.7	10263.7	11495.6	13797.6	16489.0	17707.7	17158.9	15958.2	16322.5	10769.4
52.5°	7301.4	7347.0	8037.2	9744.8	12407.5	16263.7	18836.6	18703.6	17238.0	16709.5	10780.2
55°	4308.0	4367.9	5027.0	6559.7	9759.2	14830.5	18920.4	19409.4	18248.2	16938.4	10763.4
57.5°	2012.0	2053.9	2431.4	3379.3	6069.5	11720.9	17657.4	18925.2	18805.4	17059.4	10882.0
60°	1068.9	1080.9	1172.0	1463.2	2743.0	7432.0	15192.4	17089.4	18297.3	17227.2	11027.0
62.5°	817.3	820.9	816.1	850.8	1152.8	3299.0	11483.6	14049.2	16251.8	17101.4	10866.5
65°	708.2	714.2	680.7	672.3	739.4	1176.8	6822.1	10014.5	12770.6	15403.3	9772.4
67.5°	635.1	637.5	596.8	562.0	574.0	636.3	2691.5	5482.4	8453.0	11290.7	7083.3
70°	584.8	582.4	538.1	482.9	467.3	435.0	855.6	2009.6	4039.6	5725.6	3294.2
72.5°	517.7	518.9	497.3	425.4	388.3	304.4	396.6	586.0	1205.5	1560.2	771.7
75°	459.0	453.0	426.6	381.1	320.0	200.1	196.5	261.2	371.5	369.1	166.6
77.5°	331.9	325.9	334.3	312.8	245.7	129.4	98.3	125.8	151.0	146.2	46.7
80°	243.3	239.7	215.7	260.0	216.9	88.7	61.1	67.1	77.9	65.9	14.4
82.5°	166.6	165.4	152.2	143.8	123.4	53.9	38.3	41.9	50.3	37.1	7.2
85°	26.4	30.0	110.2	87.5	73.1	24.0	26.4	28.8	33.6	20.4	2.4
87.5°	0.0	0.0	51.5	45.5	14.4	9.6	15.6	16.8	16.8	10.8	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°	5716.0	5716.0	5716.0	5716.0	5716.0	5716.0	5716.0	5716.0	5716.0	5716.0	5716.0
2.5°	5737.6	5617.8	5396.1	5167.2	4955.1	4702.3	4528.5	4397.9	4246.9	4206.1	4294.8
5°	5777.2	5550.7	5073.7	4554.9	4067.1	3526.7	3113.3	2786.1	2490.1	2389.5	2480.5
7.5°	5839.5	5502.7	4725.0	3870.6	3022.2	2178.6	1601.0	1221.1	979.0	907.1	945.5
10°	5901.8	5433.2	4321.2	3060.5	1900.6	1060.5	690.2	551.2	499.7	488.9	494.9
12.5°	5953.3	5339.8	3828.7	2176.2	1016.2	568.0	451.8	429.0	421.8	421.8	424.2
15°	5984.5	5198.4	3245.1	1384.1	584.8	429.0	394.3	387.1	387.1	388.3	390.7
17.5°	5980.9	5018.6	2606.4	837.6	437.4	379.9	359.5	353.5	352.3	354.7	355.9
20°	5936.5	4783.7	1965.3	552.4	381.1	346.3	325.9	315.2	314.0	316.4	318.8
22.5°	5852.6	4493.7	1405.6	425.4	343.9	314.0	288.8	279.2	279.2	281.6	284.0
25°	5750.8	4139.0	961.1	360.7	310.4	279.2	255.2	246.9	249.3	255.2	256.4
27.5°	5623.8	3740.0	653.1	309.2	269.6	244.5	226.5	220.5	226.5	234.9	237.3
30°	5514.7	3324.2	466.2	267.2	228.9	210.9	200.1	200.1	208.5	224.1	227.7
32.5°	5430.8	2921.5	359.5	236.1	198.9	183.3	177.4	183.3	196.5	212.1	215.7
35°	5420.1	2589.6	304.4	210.9	177.4	161.8	159.4	170.2	183.3	195.3	197.7
37.5°	5502.7	2282.8	274.4	190.5	158.2	143.8	141.4	154.6	167.8	182.1	185.7
40°	5659.7	2042.0	252.8	171.4	142.6	127.0	122.2	131.8	149.8	169.0	173.8
42.5°	5863.4	1843.0	228.9	152.2	127.0	105.5	99.5	110.2	129.4	149.8	155.8
45°	6057.6	1671.7	202.5	130.6	106.7	81.5	79.1	93.5	103.1	123.4	128.2
47.5°	6164.2	1520.7	179.7	106.7	82.7	65.9	65.9	69.5	79.1	103.1	107.8
50°	6128.3	1399.7	155.8	79.1	57.5	50.3	50.3	49.1	63.5	82.7	86.3
52.5°	6056.4	1330.1	134.2	61.1	39.5	35.9	32.4	35.9	44.3	52.7	53.9
55°	6045.6	1318.2	112.6	49.1	27.6	24.0	18.0	18.0	18.0	16.8	14.4
57.5°	6129.5	1337.3	94.7	39.5	20.4	15.6	9.6	0.0	0.0	0.0	0.0
60°	6215.7	1357.7	81.5	27.6	14.4	8.4	1.2	0.0	0.0	0.0	0.0
62.5°	6071.9	1312.2	68.3	16.8	10.8	3.6	0.0	0.0	0.0	0.0	0.0
65°	5333.8	1116.8	53.9	12.0	7.2	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	3793.9	747.8	35.9	7.2	1.2	0.0	0.0	0.0	0.0	0.0	0.0
70°	1731.6	312.8	22.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	370.3	97.1	15.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	75.5	70.7	6.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	24.0	111.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	14.4	80.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.4	12.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)