

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: P190924

Luminaire Tested: **GLEON-AF-06-LED-E1-AFL-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P190924  
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: GLEON-AF-06-LED-E1-AFL-800-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24087.4 lumens  
Efficiency: N/A  
Efficacy: 96.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2

Input Watts (W): 249  
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

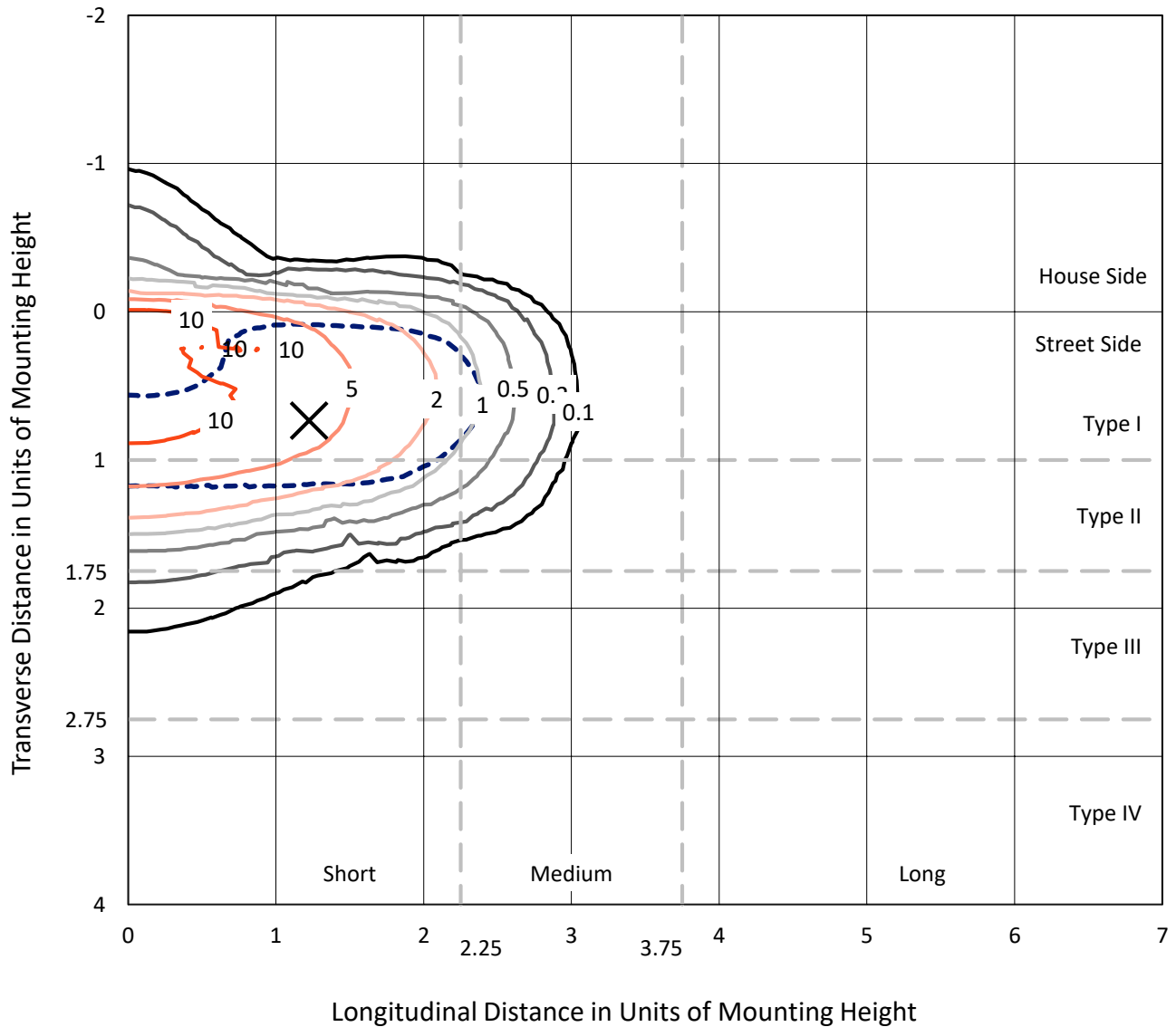


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

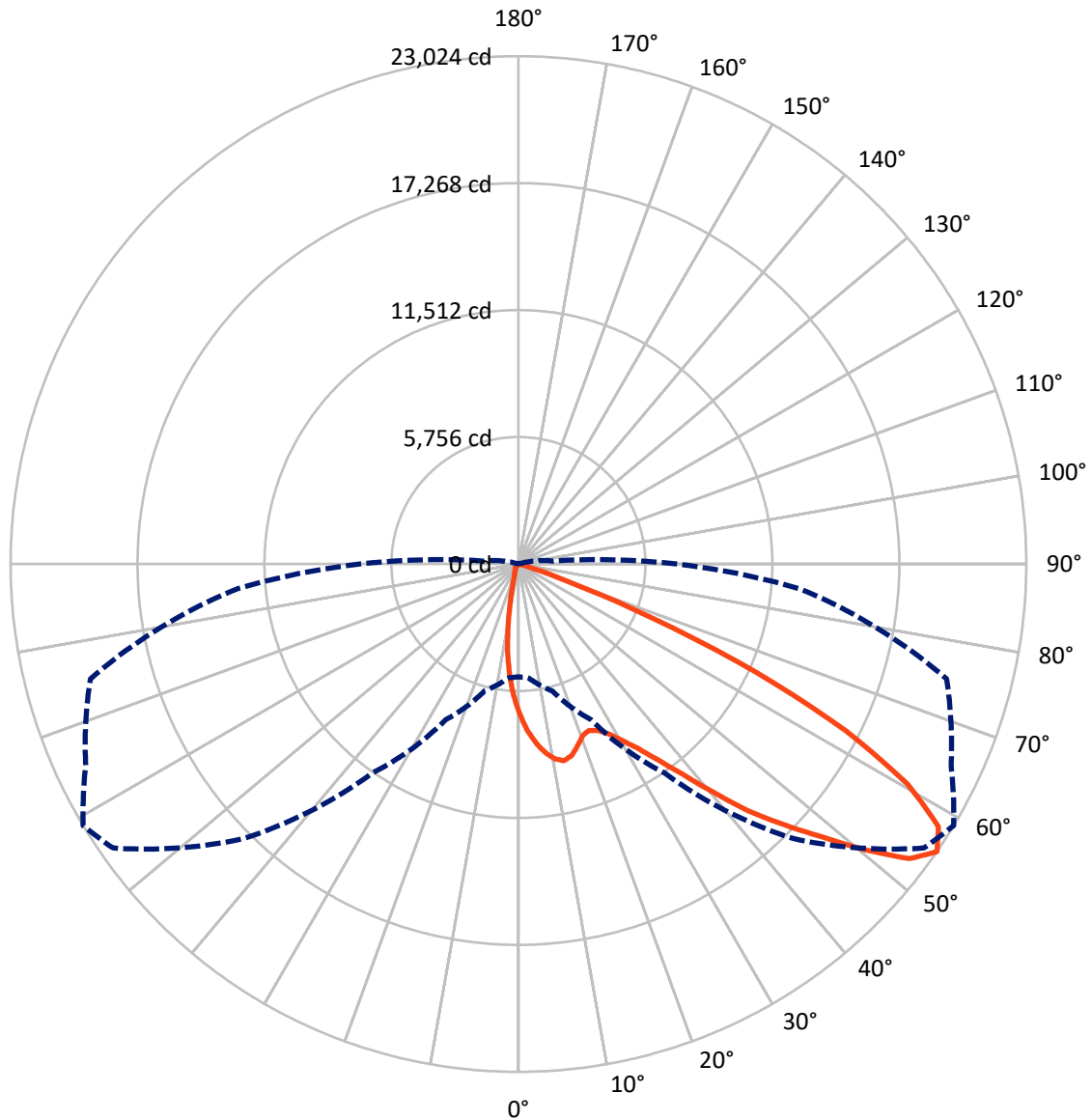


Based on 25 foot mounting height. Maximum calculated value = 13.5 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



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

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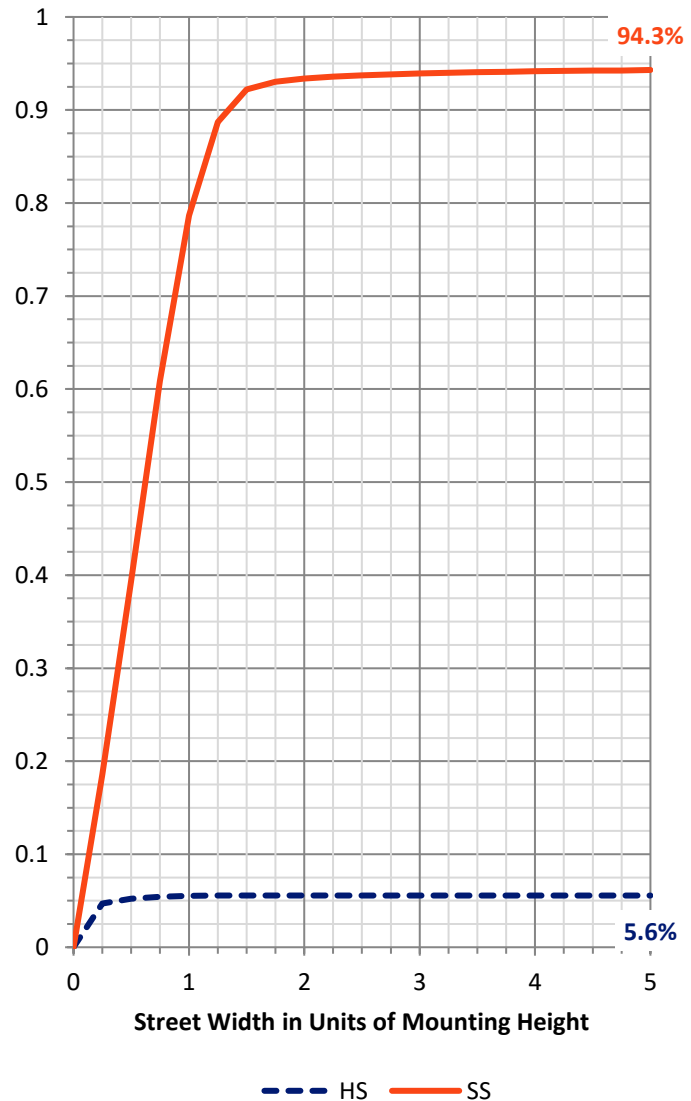
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1345.4	0.0	1345.4
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	22742.0	0.0	22742.0
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	24087.4	0.0	24087.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	567.9	2.4
10°-20°	1359.8	5.6
20°-30°	2313.9	9.6
30°-40°	3979.4	16.5
40°-50°	6143.7	25.5
50°-60°	6176.4	25.6
60°-70°	3167.3	13.1
70°-80°	343.2	1.4
80°-90°	35.9	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°	24087.4	100.0
0°-180°	24087.4	100.0

**Coefficient of Utilization**



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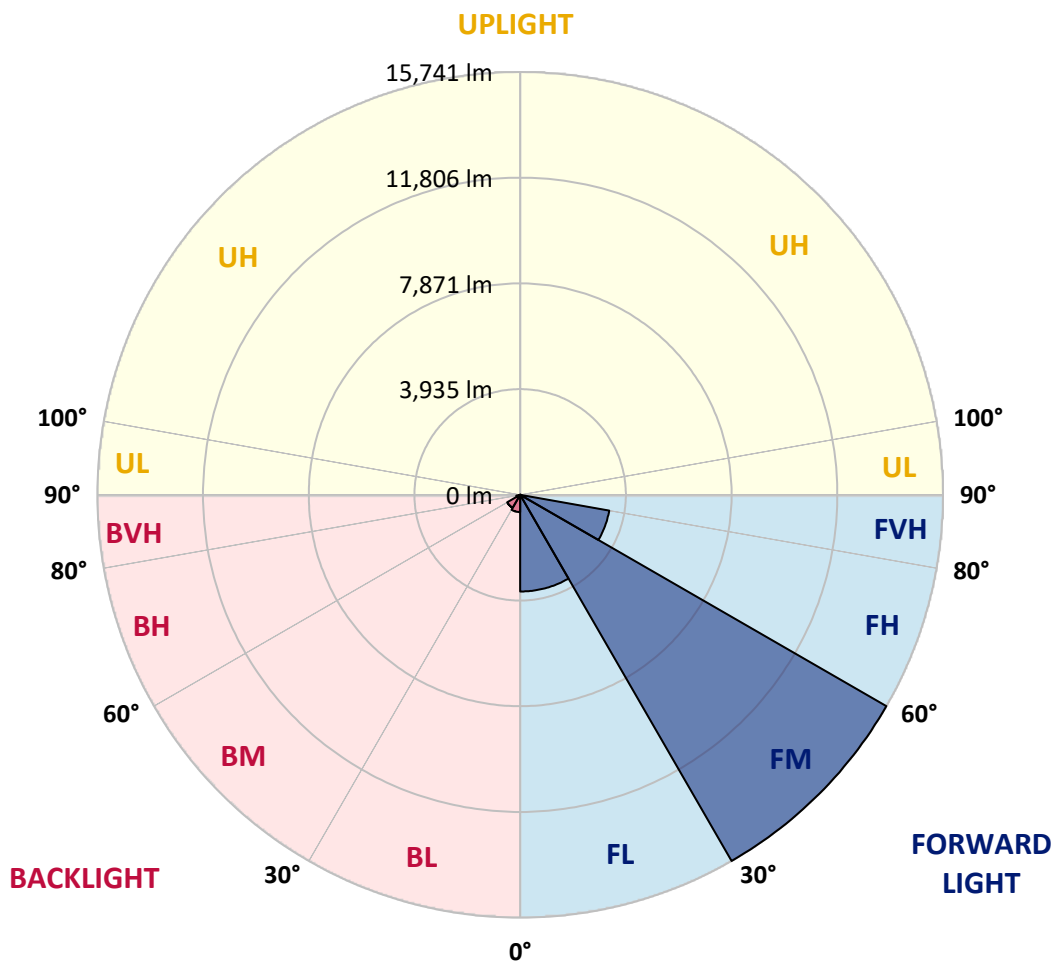
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3599.5	14.9			
FM	(30°-60°)	15741.0	65.3			
FH	(60°-80°)	3366.4	14.0			G2/5000
FVH	(80°-90°)	35.1	0.1			G1/100
BL	(0°-30°)	642.2	2.7	B2/1000		
BM	(30°-60°)	558.4	2.3	B1/1000		
BH	(60°-80°)	144.1	0.6	B1/500		G1/500
BVH	(80°-90°)	0.7	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°	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5
2.5°	8022.9	7937.6	7912.0	7894.9	7816.8	7718.7	7585.1	7522.6	7394.6	7188.5	6935.5
5°	8757.8	8742.1	8685.4	8654.1	8570.2	8430.9	8217.7	8115.3	7912.0	7565.2	7111.8
7.5°	8436.6	8534.7	8612.8	8743.6	8908.5	8902.8	8723.7	8617.1	8389.6	7932.0	7307.9
10°	7195.6	7275.2	7403.1	7700.3	8305.7	8840.2	9050.7	8973.8	8792.0	8268.8	7497.0
12.5°	6952.5	6944.0	6966.7	7053.5	7370.5	8132.4	8995.2	9150.2	9113.2	8577.3	7676.0
15°	7081.9	7072.0	7069.1	7099.0	7175.7	7497.0	8578.7	9023.7	9309.4	8863.1	7828.1
17.5°	7444.3	7401.8	7379.0	7354.8	7332.1	7411.7	8078.3	8669.7	9339.2	9113.2	7954.7
20°	8065.6	7994.5	7910.6	7774.1	7646.3	7606.5	7867.9	8305.7	9232.6	9303.6	8037.1
22.5°	8846.0	8755.0	8610.0	8361.2	8101.1	7950.4	7971.8	8190.7	9073.4	9511.2	8075.5
25°	9723.0	9606.4	9413.1	9067.7	8685.4	8418.1	8278.7	8355.6	9000.9	9754.2	8119.6
27.5°	10662.6	10533.2	10280.2	9809.7	9376.2	9015.1	8730.8	8720.9	9124.5	10072.7	8190.7
30°	11593.7	11573.8	11244.0	10746.5	10172.2	9733.0	9323.6	9271.0	9470.0	10513.4	8331.3
32.5°	12836.1	12686.8	12283.1	11771.4	11108.9	10581.6	10096.8	9974.6	10000.2	11026.5	8548.9
35°	14402.5	14239.1	13670.5	12964.1	12223.4	11600.8	11065.0	10898.6	10836.0	11866.6	8915.6
37.5°	15414.6	15411.9	15055.1	14335.7	13541.1	12854.6	12271.7	12077.0	11950.5	12881.6	9484.2
40°	15441.6	15508.4	15555.4	15548.3	14982.5	14350.0	13832.5	13592.4	13298.1	14237.6	10219.1
42.5°	14613.0	14784.9	15198.6	15900.8	16236.3	15984.7	15548.3	15312.3	14874.5	15689.0	11114.7
45°	13492.8	13612.2	14335.7	15629.4	16915.7	17605.2	17272.5	16850.4	16273.2	17202.9	11917.8
47.5°	12991.1	13012.3	13480.0	14900.1	16967.0	18932.9	19134.7	18448.1	17544.1	18422.5	12546.1
50°	11491.3	11529.8	12175.1	13636.3	16367.1	19559.7	21005.4	20354.4	18930.0	19362.2	12774.9
52.5°	8661.1	8715.1	9534.0	11559.5	14718.1	19292.5	22344.4	22186.7	20448.2	19821.3	12787.7
55°	5110.3	5181.3	5963.2	7781.3	11576.6	17592.4	22444.0	23024.0	21646.5	20092.8	12767.9
57.5°	2386.6	2436.5	2884.2	4008.6	7199.8	13903.6	20945.7	22449.7	22307.5	20236.4	12908.6
60°	1267.9	1282.2	1390.2	1735.6	3253.8	8816.1	18021.7	20271.9	21704.8	20435.4	13080.6
62.5°	969.5	973.7	968.0	1009.2	1367.5	3913.4	13622.1	16665.6	19278.3	20286.1	12890.1
65°	840.1	847.2	807.4	797.5	877.1	1395.9	8092.6	11879.4	15148.9	18271.8	11592.3
67.5°	753.4	756.3	707.9	666.7	680.9	754.8	3192.6	6503.3	10027.2	13393.3	8402.4
70°	693.7	690.8	638.2	572.9	554.3	516.0	1015.0	2383.9	4791.8	6791.9	3907.7
72.5°	614.1	615.5	589.9	504.6	460.5	361.1	470.6	695.1	1430.0	1850.8	915.4
75°	544.4	537.4	506.1	452.0	379.5	237.4	233.1	309.9	440.7	437.8	197.6
77.5°	393.7	386.7	396.6	371.0	291.4	153.5	116.5	149.2	179.1	173.4	55.4
80°	288.6	284.3	255.8	308.4	257.3	105.2	72.5	79.6	92.4	78.2	17.1
82.5°	197.6	196.2	180.6	170.6	146.4	63.9	45.5	49.7	59.7	44.1	8.5
85°	31.3	35.5	130.7	103.7	86.7	28.4	31.3	34.2	39.8	24.1	2.9
87.5°	0.0	0.0	61.2	54.0	17.1	11.4	18.5	19.9	19.9	12.8	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°	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5	6780.5
2.5°	6806.1	6663.9	6401.0	6129.5	5877.9	5577.9	5371.8	5216.8	5037.7	4989.4	5094.6
5°	6853.1	6584.3	6018.6	5403.1	4824.5	4183.5	3693.1	3304.9	2953.9	2834.5	2942.5
7.5°	6926.9	6527.4	5605.0	4591.4	3585.0	2584.3	1899.1	1448.5	1161.4	1076.0	1121.6
10°	7000.9	6445.0	5125.9	3630.5	2254.5	1258.0	818.8	653.9	592.8	580.0	587.1
12.5°	7061.9	6334.2	4541.7	2581.4	1205.4	673.8	535.9	508.9	500.3	500.3	503.2
15°	7099.0	6166.4	3849.4	1641.8	693.7	508.9	467.7	459.1	459.1	460.5	463.4
17.5°	7094.7	5953.2	3091.8	993.6	518.8	450.6	426.5	419.3	417.9	420.7	422.2
20°	7042.1	5674.6	2331.2	655.3	452.0	410.8	386.7	373.9	372.5	375.3	378.1
22.5°	6942.6	5330.6	1667.4	504.6	408.0	372.5	342.6	331.2	331.2	334.1	336.9
25°	6821.8	4909.9	1140.1	427.9	368.2	331.2	302.8	292.9	295.6	302.8	304.2
27.5°	6671.1	4436.4	774.7	366.7	319.9	290.0	268.6	261.6	268.6	278.7	281.4
30°	6541.7	3943.3	553.0	317.0	271.5	250.2	237.4	237.4	247.3	265.9	270.1
32.5°	6442.2	3465.6	426.5	280.1	236.0	217.5	210.4	217.5	233.1	251.6	255.8
35°	6429.5	3071.8	361.1	250.2	210.4	191.9	189.0	201.8	217.5	231.7	234.6
37.5°	6527.4	2708.0	325.5	226.0	187.6	170.6	167.8	183.4	199.0	216.0	220.3
40°	6713.7	2422.2	299.9	203.3	169.2	150.7	145.0	156.4	177.7	200.4	206.1
42.5°	6955.3	2186.3	271.5	180.6	150.7	125.1	117.9	130.7	153.5	177.7	184.7
45°	7185.6	1983.0	240.2	155.0	126.5	96.7	93.8	110.9	122.2	146.4	152.1
47.5°	7312.2	1803.9	213.2	126.5	98.1	78.2	78.2	82.4	93.8	122.2	128.0
50°	7269.5	1660.4	184.7	93.8	68.2	59.7	59.7	58.3	75.3	98.1	102.4
52.5°	7184.2	1577.9	159.2	72.5	47.0	42.7	38.4	42.7	52.6	62.5	63.9
55°	7171.4	1563.7	133.6	58.3	32.7	28.4	21.3	21.3	21.3	19.9	17.1
57.5°	7270.9	1586.4	112.3	47.0	24.1	18.5	11.4	0.0	0.0	0.0	0.0
60°	7373.3	1610.5	96.7	32.7	17.1	9.9	1.4	0.0	0.0	0.0	0.0
62.5°	7202.7	1556.5	81.0	19.9	12.8	4.3	0.0	0.0	0.0	0.0	0.0
65°	6327.1	1324.8	63.9	14.2	8.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	4500.5	887.0	42.7	8.5	1.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	2054.1	371.0	27.0	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	439.3	115.2	18.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	89.5	83.9	7.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	28.4	132.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	17.1	95.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	2.9	14.2	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)