

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: P190945

Luminaire Tested: **GLEON-AF-07-LED-E1-AFL-1200-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190945
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-07-LED-E1-AFL-1200-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 1200mA 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: 38676.8 lumens
Efficiency: N/A
Efficacy: 86.3 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 448
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

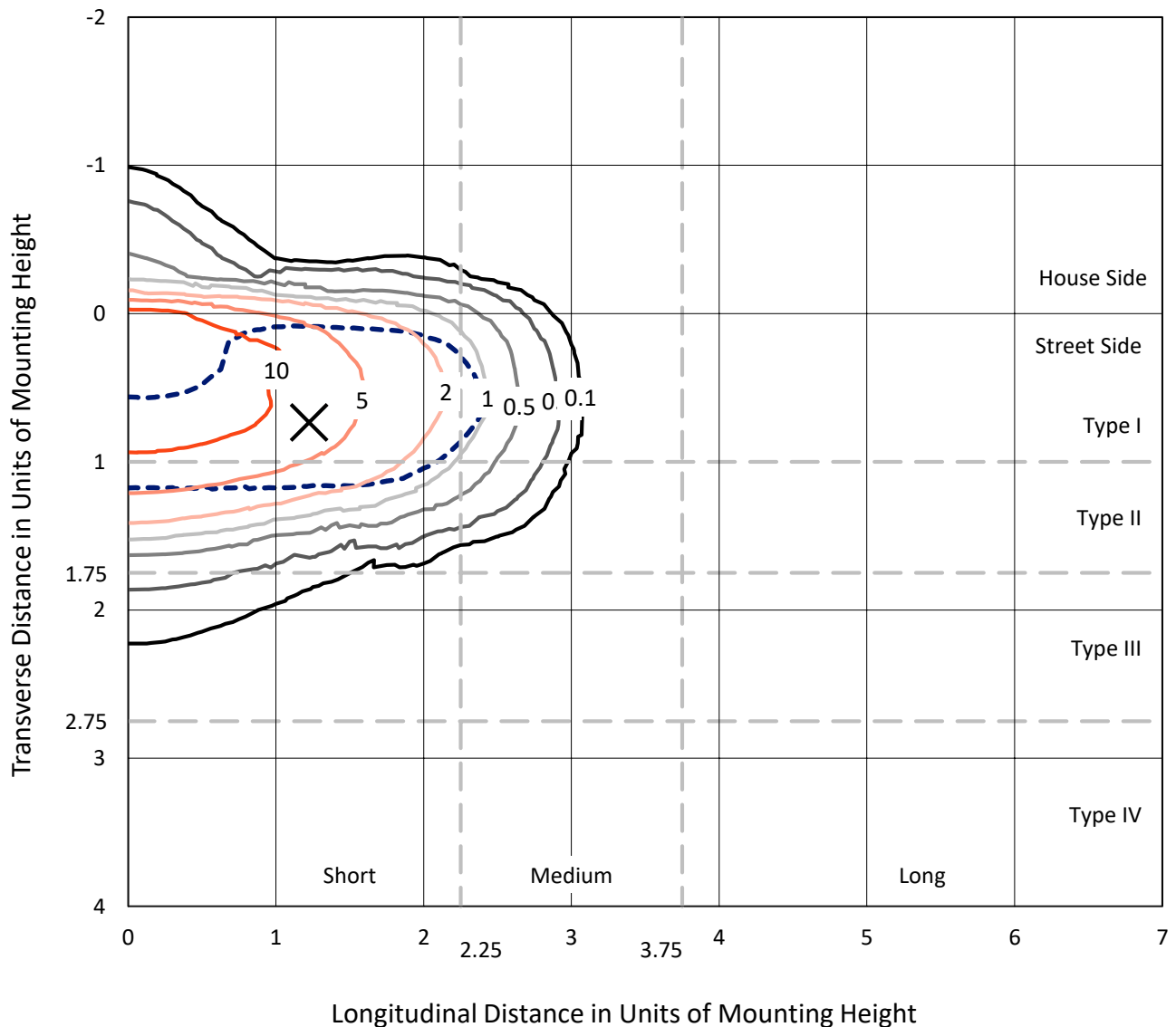


REPORT NUMBER: P190945

CATALOG NUMBER: GLEON-AF-07-LED-E1-AFL-1200-HSS

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

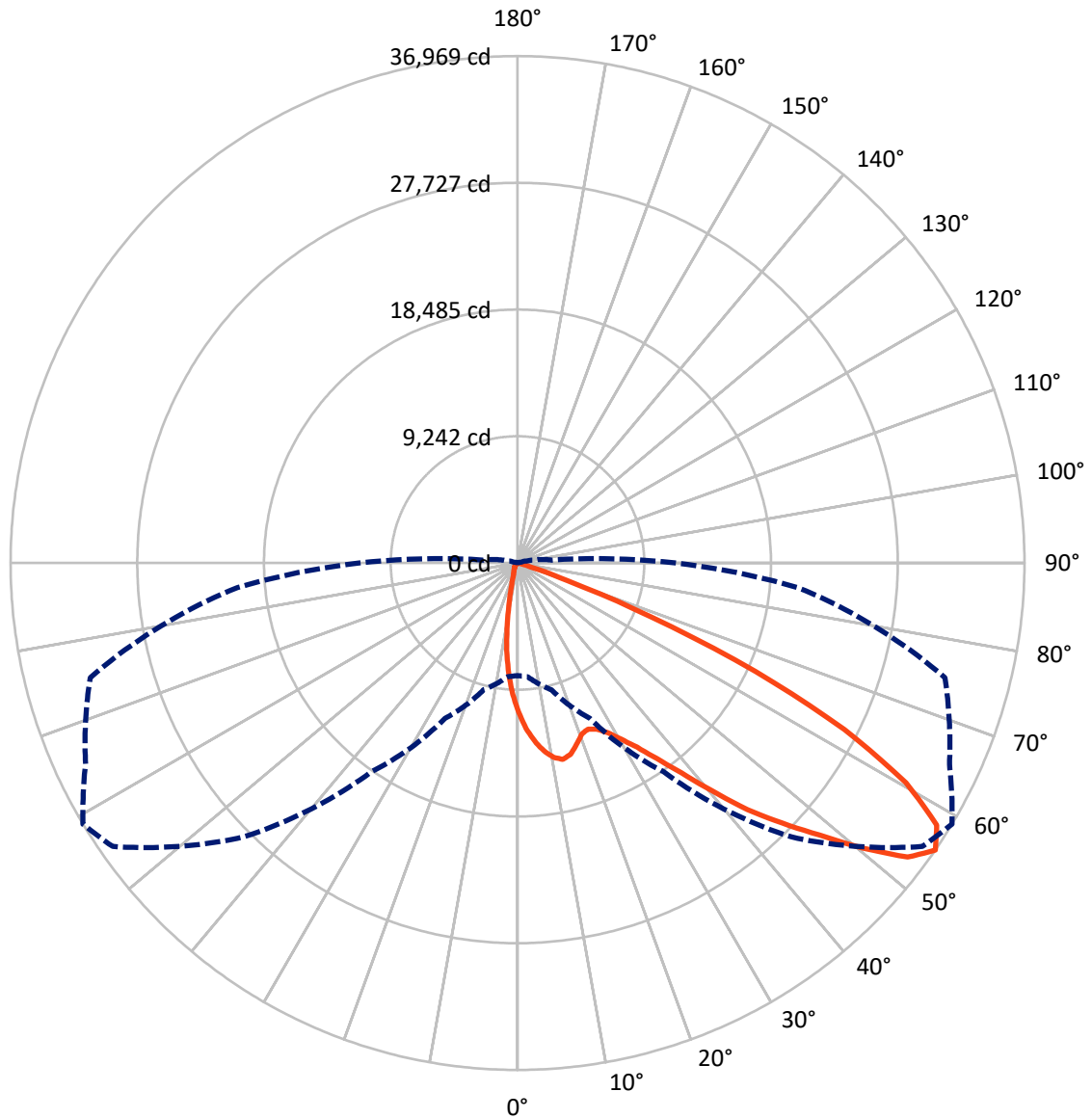


Based on 30 foot mounting height. Maximum calculated value = 15 fc
 Type II - Short - Full Cutoff

REPORT NUMBER: P190945

CATALOG NUMBER: GLEON-AF-07-LED-E1-AFL-1200-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P190945

CATALOG NUMBER: GLEON-AF-07-LED-E1-AFL-1200-HSS

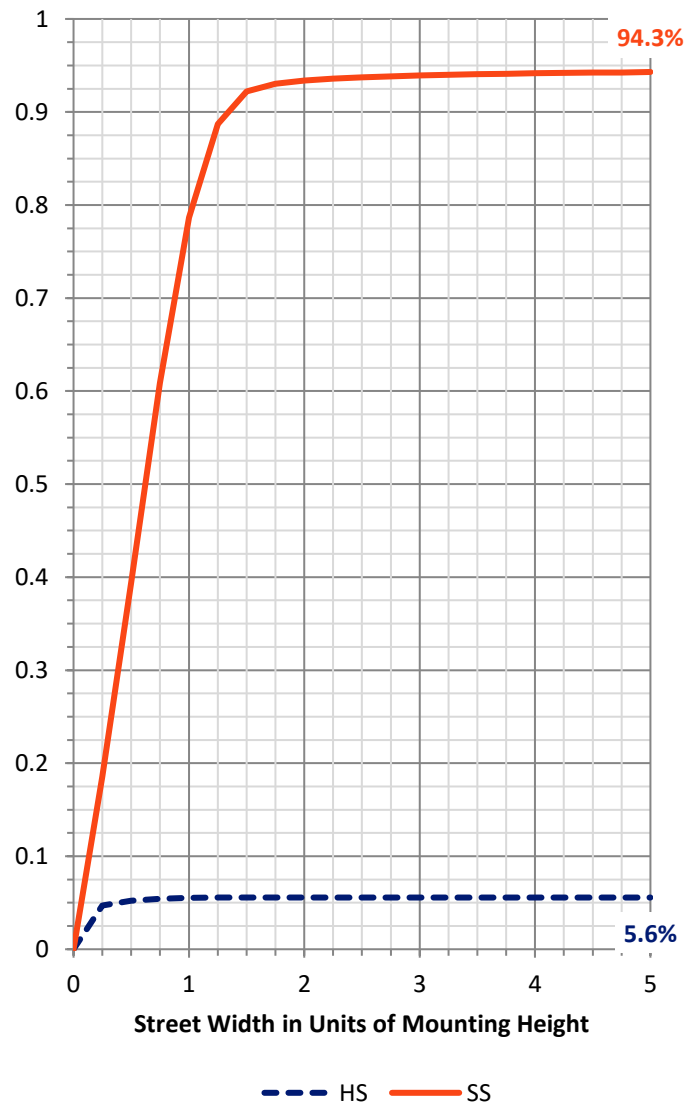
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2160.3	0.0	2160.3
	% Fixture	5.6	0.0	5.6
Street Side	Lumens	36516.4	0.0	36516.4
	% Fixture	94.4	0.0	94.4
Total	Lumens	38676.8	0.0	38676.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	911.9	2.4
10°-20°	2183.4	5.6
20°-30°	3715.3	9.6
30°-40°	6389.6	16.5
40°-50°	9864.8	25.5
50°-60°	9917.3	25.6
60°-70°	5085.6	13.1
70°-80°	551.1	1.4
80°-90°	57.6	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°	38676.8	100.0
0°-180°	38676.8	100.0



REPORT NUMBER: P190945

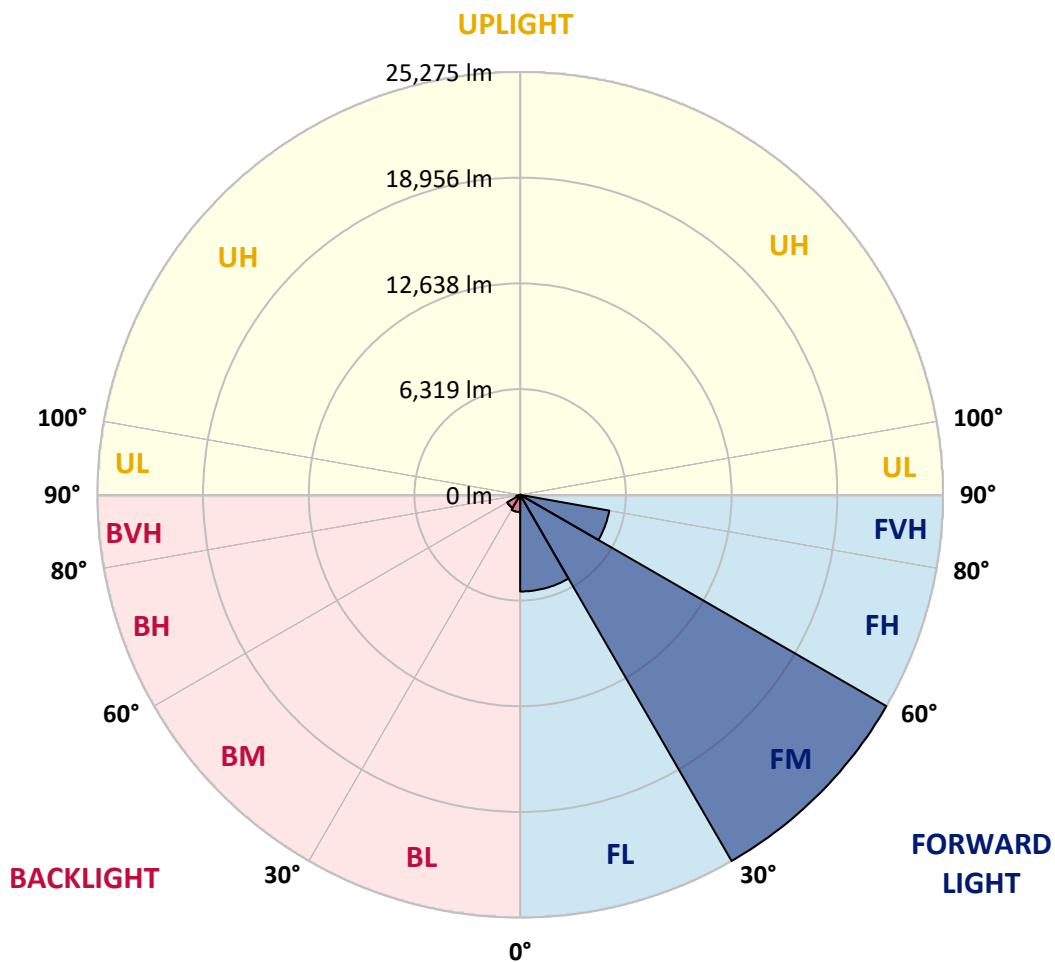
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5779.6	14.9			
FM	(30°-60°)	25275.1	65.3			
FH	(60°-80°)	5405.3	14.0			G3/7500
FVH	(80°-90°)	56.4	0.1			G1/100
BL	(0°-30°)	1031.1	2.7	B3/2500		
BM	(30°-60°)	896.6	2.3	B1/1000		
BH	(60°-80°)	231.4	0.6	B1/500		G1/500
BVH	(80°-90°)	1.2	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





REPORT NUMBER: P190945

CATALOG NUMBER: GLEON-AF-07-LED-E1-AFL-1200-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	10887.4	10887.4	10887.4	10887.4	10887.4	10887.4	10887.4	10887.4	10887.4	10887.4	10887.4
2.5°	12882.2	12745.3	12704.2	12676.8	12551.3	12393.8	12179.3	12078.8	11873.4	11542.5	11136.1
5°	14062.3	14037.1	13945.9	13895.7	13760.9	13537.3	13194.9	13030.6	12704.2	12147.3	11419.2
7.5°	13546.4	13704.0	13829.5	14039.5	14304.2	14295.1	14007.5	13836.3	13471.1	12736.1	11734.2
10°	11553.8	11681.7	11887.1	12364.1	13336.4	14194.7	14532.4	14409.2	14117.0	13277.1	12037.8
12.5°	11163.6	11149.9	11186.4	11325.6	11834.6	13058.0	14443.5	14692.2	14632.9	13772.4	12325.3
15°	11371.2	11355.3	11350.7	11398.6	11521.9	12037.8	13774.6	14489.1	14947.9	14231.2	12569.5
17.5°	11953.3	11884.8	11848.3	11809.5	11772.9	11900.8	12971.2	13920.7	14995.8	14632.9	12772.7
20°	12950.8	12836.6	12701.9	12482.8	12277.4	12213.5	12633.4	13336.4	14824.6	14938.8	12905.0
22.5°	14203.8	14057.7	13824.9	13425.5	13007.7	12765.8	12800.1	13151.6	14569.0	15271.9	12966.7
25°	15612.1	15424.9	15114.5	14559.9	13945.9	13516.8	13293.0	13416.3	14452.6	15662.3	13037.4
27.5°	17120.8	16913.1	16506.8	15751.3	15055.2	14475.4	14018.9	14003.0	14651.1	16173.6	13151.6
30°	18615.8	18583.8	18054.3	17255.4	16333.4	15628.0	14970.7	14886.3	15205.8	16881.1	13377.5
32.5°	20610.7	20371.0	19722.8	18901.1	17837.5	16990.7	16212.3	16016.0	16057.2	17705.1	13726.8
35°	23126.0	22863.5	21950.5	20816.1	19626.9	18627.2	17766.7	17499.6	17399.3	19054.0	14315.6
37.5°	24751.1	24746.5	24173.6	23018.6	21742.8	20640.4	19704.5	19391.9	19188.7	20683.8	15228.6
40°	24794.4	24901.7	24977.0	24965.6	24057.2	23041.5	22210.7	21825.0	21352.5	22861.2	16408.6
42.5°	23463.7	23739.9	24404.1	25531.6	26070.3	25666.3	24965.6	24586.7	23883.8	25191.6	17846.6
45°	21665.2	21856.9	23018.6	25095.7	27161.4	28268.3	27734.2	27056.3	26129.6	27622.4	19136.2
47.5°	20859.5	20893.7	21644.6	23924.8	27243.5	30400.2	30724.3	29621.9	28170.2	29580.8	20145.1
50°	18451.5	18513.1	19549.3	21895.8	26280.3	31406.7	33728.0	32682.7	30395.7	31089.5	20512.5
52.5°	13907.1	13993.8	15308.5	18561.0	23632.6	30977.6	35878.1	35624.8	32833.2	31826.8	20533.1
55°	8205.5	8319.6	9574.9	12494.2	18588.4	28247.8	36037.8	36969.1	34757.4	32262.6	20501.2
57.5°	3832.3	3912.2	4631.1	6436.5	11560.7	22324.8	33632.2	36046.9	35818.7	32493.2	20727.0
60°	2036.0	2058.8	2232.3	2786.9	5224.5	14155.9	28937.1	32550.3	34851.0	32812.8	21003.2
62.5°	1556.6	1563.5	1554.4	1620.6	2195.8	6283.7	21872.8	26759.7	30954.8	32573.1	20697.4
65°	1349.0	1360.3	1296.5	1280.4	1408.3	2241.4	12994.0	19074.6	24324.2	29338.8	18613.5
67.5°	1209.7	1214.2	1136.7	1070.5	1093.3	1212.0	5126.4	10442.3	16100.5	21505.4	13491.7
70°	1113.9	1109.3	1024.8	919.8	890.2	828.5	1629.7	3827.7	7694.2	10905.6	6274.5
72.5°	986.0	988.3	947.3	810.3	739.5	579.7	755.4	1116.1	2296.1	2971.8	1469.9
75°	874.2	862.8	812.5	725.8	609.4	381.2	374.3	497.6	707.6	703.0	317.2
77.5°	632.3	620.8	636.8	595.8	467.9	246.5	187.2	239.7	287.6	278.4	89.0
80°	463.3	456.5	410.8	495.3	413.2	168.9	116.4	127.9	148.3	125.5	27.4
82.5°	317.2	315.0	289.9	273.9	235.1	102.7	73.0	79.9	95.9	70.8	13.7
85°	50.2	57.1	210.0	166.6	139.2	45.6	50.2	54.8	63.9	38.8	4.6
87.5°	0.0	0.0	98.1	86.7	27.4	18.3	29.7	31.9	31.9	20.6	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



REPORT NUMBER: P190945

CATALOG NUMBER: GLEON-AF-07-LED-E1-AFL-1200-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10887.4	10887.4	10887.4	10887.4	10887.4	10887.4	10887.4	10887.4	10887.4	10887.4	10887.4
2.5°	10928.5	10700.2	10278.0	9842.0	9437.9	8956.4	8625.4	8376.6	8089.1	8011.4	8180.3
5°	11003.8	10572.4	9663.9	8675.6	7746.7	6717.3	5929.8	5306.8	4743.0	4551.2	4724.7
7.5°	11122.4	10481.1	8999.7	7372.4	5756.3	4149.5	3049.4	2325.9	1864.7	1727.9	1800.9
10°	11241.1	10348.7	8230.6	5829.4	3620.0	2020.0	1314.7	1050.0	951.8	931.3	942.6
12.5°	11339.3	10170.7	7292.5	4145.0	1935.5	1081.9	860.5	817.1	803.4	803.4	808.0
15°	11398.6	9901.3	6180.9	2636.2	1113.9	817.1	750.9	737.2	737.2	739.5	744.1
17.5°	11391.8	9559.0	4964.4	1595.4	833.1	723.5	684.8	673.3	671.1	675.7	677.9
20°	11307.3	9111.6	3743.3	1052.2	725.8	659.6	620.8	600.3	598.0	602.6	607.1
22.5°	11147.6	8559.2	2677.4	810.3	655.1	598.0	550.0	531.8	531.8	536.3	540.9
25°	10953.6	7883.7	1830.6	687.0	591.2	531.8	486.2	470.1	474.8	486.2	488.5
27.5°	10711.6	7123.6	1243.9	588.9	513.5	465.6	431.4	420.0	431.4	447.3	451.9
30°	10503.9	6331.6	887.9	509.0	436.0	401.7	381.2	381.2	397.1	426.8	433.6
32.5°	10344.2	5564.6	684.8	449.7	378.9	349.2	337.8	349.2	374.3	404.0	410.8
35°	10323.6	4932.4	579.7	401.7	337.8	308.1	303.6	324.1	349.2	372.0	376.7
37.5°	10481.1	4348.1	522.7	362.9	301.3	273.9	269.3	294.4	319.6	347.0	353.7
40°	10780.1	3889.4	481.6	326.4	271.6	241.9	232.8	251.0	285.3	321.8	330.9
42.5°	11168.1	3510.5	436.0	289.9	241.9	200.9	189.5	210.0	246.5	285.3	296.8
45°	11537.9	3184.0	385.8	248.8	203.2	155.2	150.7	178.0	196.3	235.1	244.2
47.5°	11741.0	2896.5	342.4	203.2	157.5	125.5	125.5	132.4	150.7	196.3	205.4
50°	11672.5	2665.9	296.8	150.7	109.6	95.9	95.9	93.6	121.0	157.5	164.4
52.5°	11535.6	2533.5	255.6	116.4	75.3	68.4	61.6	68.4	84.5	100.5	102.7
55°	11515.1	2510.7	214.5	93.6	52.5	45.6	34.3	34.3	34.3	31.9	27.4
57.5°	11674.8	2547.2	180.3	75.3	38.8	29.7	18.3	0.0	0.0	0.0	0.0
60°	11839.1	2586.0	155.2	52.5	27.4	16.0	2.3	0.0	0.0	0.0	0.0
62.5°	11565.3	2499.3	130.1	31.9	20.6	6.9	0.0	0.0	0.0	0.0	0.0
65°	10159.2	2127.2	102.7	22.8	13.7	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	7226.3	1424.3	68.4	13.7	2.3	0.0	0.0	0.0	0.0	0.0	0.0
70°	3298.2	595.8	43.4	4.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	705.3	184.8	29.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	143.8	134.6	11.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	45.6	212.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	27.4	152.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	4.6	22.8	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)