

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: P321420

Luminaire Tested: **GLEON-SA6D-827-U-T2R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321420
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-9)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6D-827-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27538 lumens
Efficiency: N/A
Efficacy: 72.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

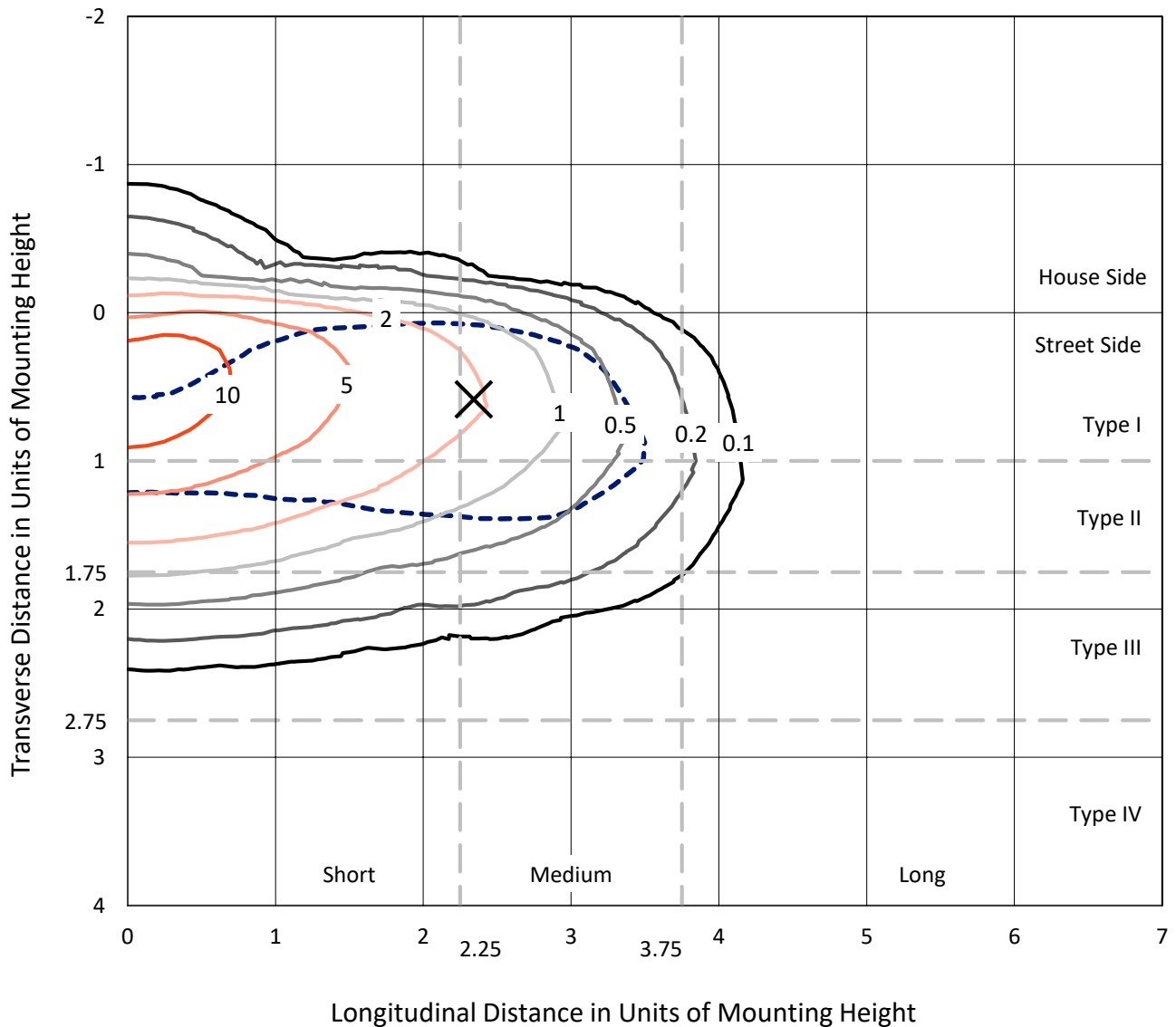
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321420
 CATALOG NUMBER: GLEON-SA6D-827-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

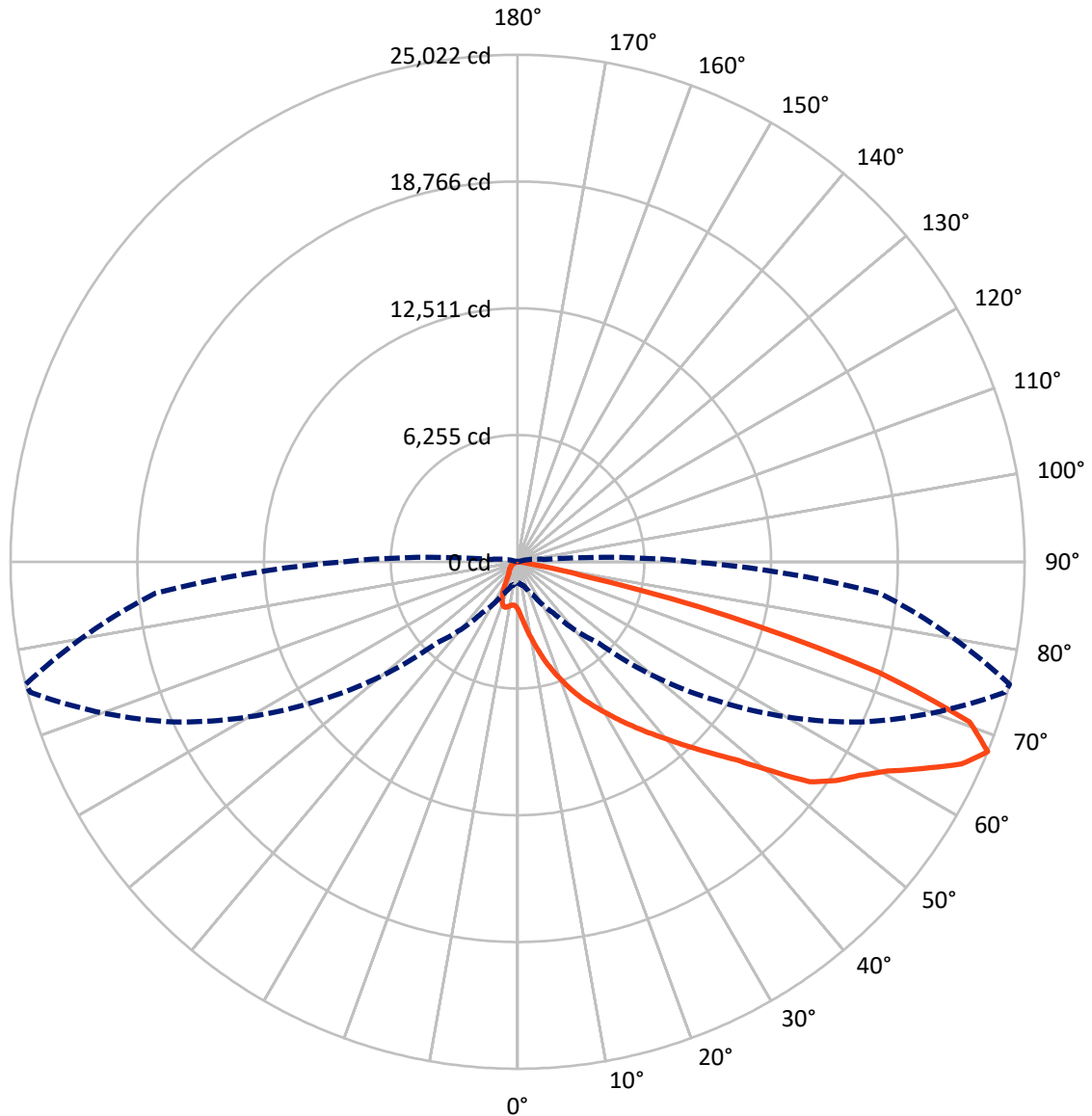
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
 Type II - Medium - N/A

REPORT NUMBER: P321420
CATALOG NUMBER: GLEON-SA6D-827-U-T2R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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 CATALOG NUMBER: GLEON-SA6D-827-U-T2R-HSS

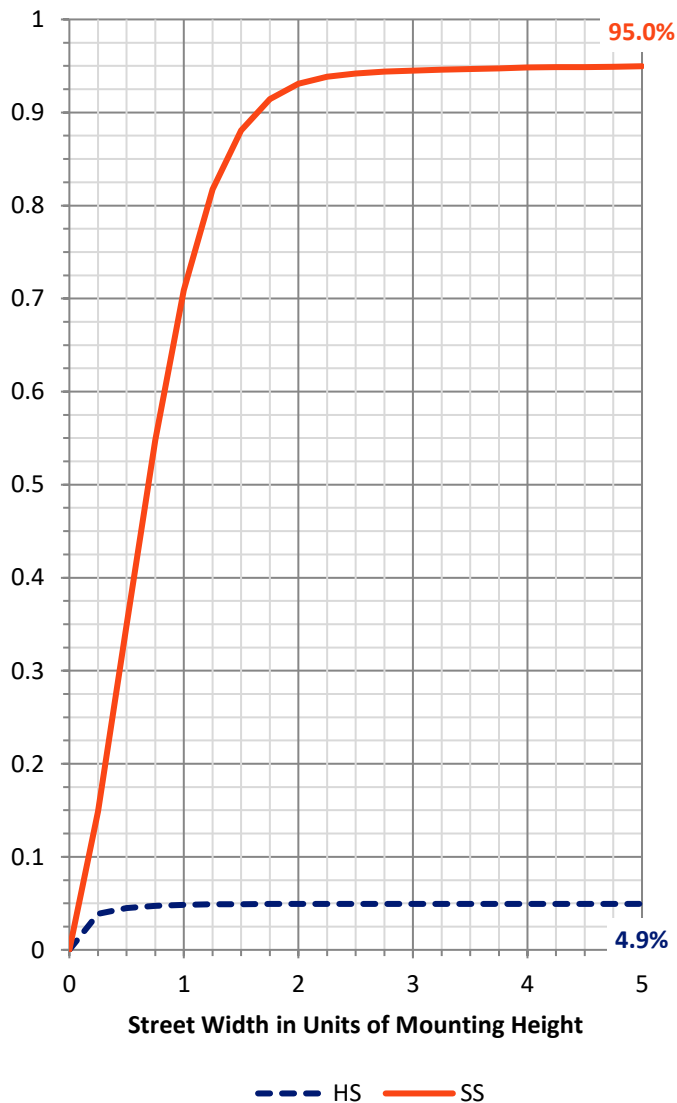
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1367.5	0.0	1367.5
	% Fixture	5.0	0.0	5.0
Street Side	Lumens	26170.5	0.0	26170.5
	% Fixture	95.0	0.0	95.0
Total	Lumens	27538.0	0.0	27538.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	290.5	1.1
10°-20°	1151.5	4.2
20°-30°	2342.9	8.5
30°-40°	4066.6	14.8
40°-50°	5745.6	20.9
50°-60°	6515.7	23.7
60°-70°	5404.2	19.6
70°-80°	1957.6	7.1
80°-90°	63.5	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°	27538.0	100.0
0°-180°	27538.0	100.0

Coefficient of Utilization

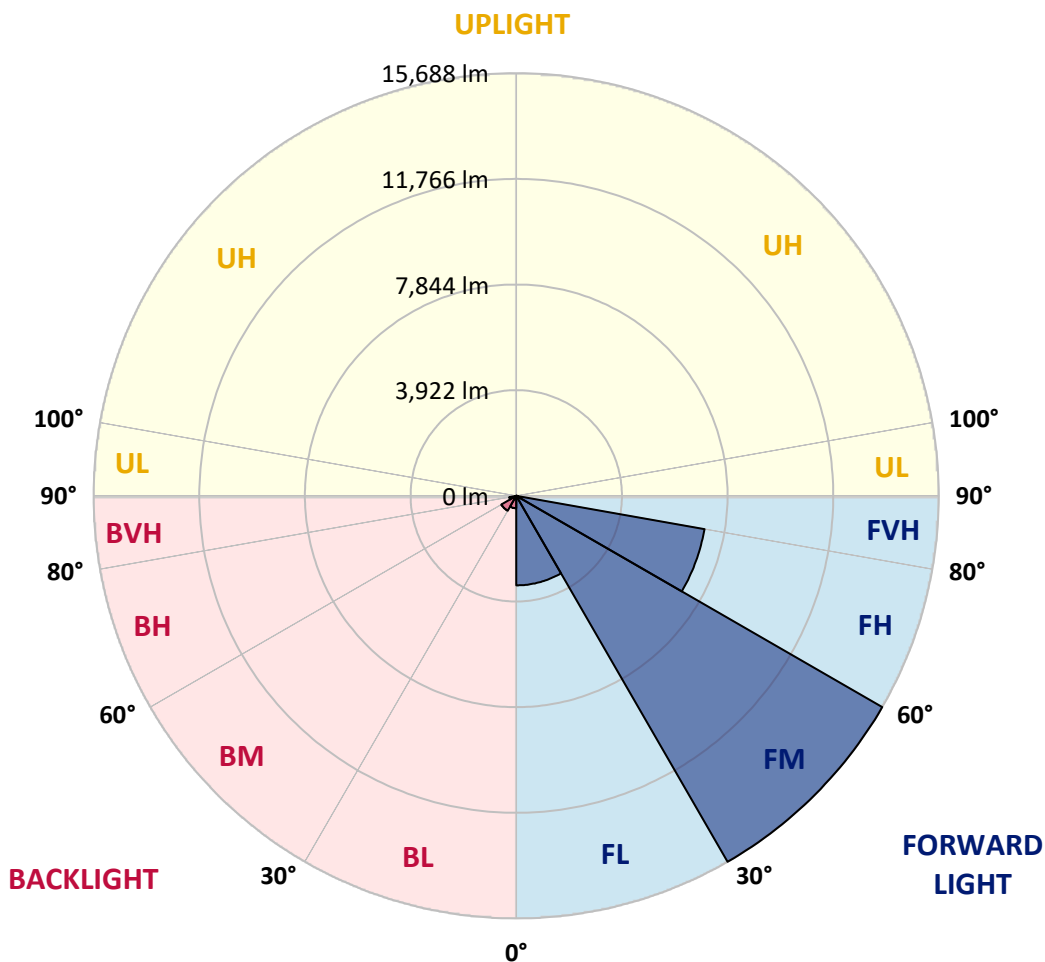


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 CATALOG NUMBER: GLEON-SA6D-827-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3323.7	12.1			
FM (30°-60°)	15687.8	57.0			
FH (60°-80°)	7097.5	25.8			G3/7500
FVH (80°-90°)	61.5	0.2			G1/100
BL (0°-30°)	461.2	1.7	B1/500		
BM (30°-60°)	640.0	2.3	B1/1000		
BH (60°-80°)	264.3	1.0	B1/500		G1/500
BVH (80°-90°)	2.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3
 Type II Medium





REPORT NUMBER: P321420

CATALOG NUMBER: GLEON-SA6D-827-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2336.0	2336.0	2336.0	2336.0	2336.0	2336.0	2336.0	2336.0	2336.0	2336.0	2336.0
2.5°	3487.1	3408.7	3426.8	3376.1	3284.4	3096.2	2935.7	2783.7	2606.3	2600.3	2454.3
5°	4702.2	4635.8	4627.4	4524.8	4358.3	4038.6	3727.3	3372.5	2976.7	2947.8	2637.7
7.5°	5805.1	5752.0	5732.7	5610.8	5300.7	4989.4	4584.0	4062.7	3443.7	3390.6	2885.0
10°	6652.1	6626.8	6631.6	6544.7	6279.3	5989.7	5457.6	4792.7	3973.4	3891.4	3181.9
12.5°	7294.0	7300.1	7343.5	7290.4	7142.0	6927.2	6358.9	5571.0	4559.8	4447.6	3520.9
15°	7765.8	7796.0	7875.6	7942.0	7931.1	7745.3	7224.0	6361.3	5182.4	5058.2	3898.6
17.5°	8071.1	8104.9	8220.7	8367.9	8503.1	8459.6	8059.0	7123.9	5812.3	5668.7	4302.8
20°	8339.0	8378.8	8503.1	8697.3	8949.5	9003.8	8740.8	7863.6	6440.9	6266.0	4720.3
22.5°	8919.3	8918.1	8994.2	9107.6	9347.7	9487.7	9321.2	8550.1	7062.4	6880.2	5146.2
25°	9969.1	9929.3	9902.7	9813.5	9866.5	9953.4	9860.5	9192.0	7687.4	7502.8	5578.2
27.5°	11216.8	11240.9	11026.1	10786.0	10600.2	10510.9	10358.8	9786.9	8288.3	8085.6	6000.5
30°	12533.2	12540.4	12287.0	11980.5	11571.5	11232.4	10969.4	10355.2	8906.1	8685.3	6410.8
32.5°	13720.5	13673.4	13422.5	13005.0	12488.5	12107.2	11560.6	10989.9	9560.1	9346.5	6866.9
35°	14661.7	14606.2	14300.9	13920.8	13385.1	13001.4	12343.7	11623.4	10247.8	10039.1	7324.2
37.5°	15349.4	15284.3	14970.6	14579.6	14117.5	13894.3	13252.3	12312.4	10998.4	10773.9	7805.6
40°	15588.3	15531.6	15335.0	15049.0	14677.3	14626.7	14216.4	13105.1	11815.2	11576.3	8351.0
42.5°	15446.0	15390.5	15320.5	15223.9	15069.5	15117.8	15126.2	14008.9	12722.6	12487.3	8953.1
45°	14881.3	14831.8	14904.2	15045.4	15237.2	15476.1	15956.4	14980.2	13736.2	13485.2	9649.4
47.5°	14049.9	14013.7	14214.0	14566.3	15127.4	15786.2	16715.3	16001.0	14874.0	14641.1	10518.1
50°	12867.4	12861.4	13262.0	13905.1	14767.8	15935.9	17499.6	17161.8	16454.7	16209.8	11726.0
52.5°	11026.1	11038.2	11826.1	12855.3	14136.8	15834.5	18004.0	18653.2	18293.6	18039.0	12772.1
55°	9272.9	9345.3	9904.0	11388.1	13169.1	15458.0	18177.8	19349.4	19308.4	19067.0	13353.7
57.5°	7555.9	7687.4	8225.5	9611.9	11756.1	14590.5	18082.4	19651.0	20063.7	19879.1	14121.1
60°	5695.3	5755.6	6375.8	7671.7	9942.6	13007.4	17391.0	19815.1	21096.6	20968.7	15234.8
62.5°	3623.5	3774.3	4324.5	5574.6	7741.7	10808.9	16225.4	19812.7	22388.9	22458.9	16671.9
65°	1908.9	2085.0	2377.0	3454.6	5320.0	8353.4	14472.2	19626.9	23974.4	24072.1	17795.3
67.5°	1029.2	1079.9	1234.4	1793.0	3085.3	5659.1	11896.1	18709.9	24892.6	25021.7	17952.1
70°	752.9	780.7	838.6	991.8	1552.9	3286.8	8680.4	16630.9	23708.9	23660.6	15950.3
72.5°	578.0	621.4	664.8	726.4	892.9	1754.4	5404.5	13023.1	18917.4	18598.9	11922.6
75°	456.1	463.3	524.9	580.4	669.7	999.1	2400.0	7584.8	11546.2	10792.0	6182.7
77.5°	364.4	369.2	405.4	453.7	538.2	656.4	743.3	2984.0	3686.2	3289.3	1341.8
80°	216.0	228.1	301.7	349.9	446.5	413.9	271.5	648.0	575.6	521.3	225.6
82.5°	120.7	130.3	170.1	276.3	311.3	197.9	135.1	175.0	135.1	131.5	64.0
85°	0.0	6.0	109.8	171.3	126.7	43.4	56.7	57.9	39.8	37.4	25.3
87.5°	0.0	0.0	33.8	32.6	4.8	7.2	13.3	19.3	15.7	15.7	13.3
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: P321420

CATALOG NUMBER: GLEON-SA6D-827-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2336.0	2336.0	2336.0	2336.0	2336.0	2336.0	2336.0	2336.0	2336.0	2336.0	2336.0
2.5°	2381.9	2316.7	2193.6	2073.0	1971.6	1888.4	1813.6	1783.4	1759.3	1755.6	1736.3
5°	2488.1	2356.5	2121.2	1928.2	1799.1	1707.4	1628.9	1580.7	1543.3	1528.8	1515.5
7.5°	2648.5	2449.4	2111.6	1889.6	1735.1	1580.7	1435.9	1279.0	1181.3	1143.9	1122.2
10°	2844.0	2572.5	2147.8	1878.7	1608.4	1282.6	1042.5	843.4	762.6	736.0	728.8
12.5°	3072.1	2725.8	2210.5	1811.1	1338.1	911.0	719.1	651.6	633.5	625.0	625.0
15°	3333.9	2893.5	2255.2	1615.7	989.4	689.0	622.6	591.2	571.9	561.1	562.3
17.5°	3601.8	3057.6	2233.5	1332.1	730.0	613.0	563.5	529.7	503.2	492.3	489.9
20°	3872.0	3209.6	2112.8	991.8	617.8	556.3	500.7	463.3	436.8	425.9	423.5
22.5°	4152.0	3338.7	1900.4	727.6	555.0	493.5	439.2	401.8	376.5	366.8	362.0
25°	4424.7	3443.7	1603.6	588.8	495.9	434.4	382.5	347.5	324.6	314.9	313.7
27.5°	4679.3	3510.1	1259.7	520.1	444.0	381.3	334.2	302.9	283.6	276.3	275.1
30°	4908.5	3516.1	931.5	469.4	398.2	335.4	292.0	264.3	247.4	240.1	237.7
32.5°	5140.2	3465.4	678.1	423.5	356.0	295.6	253.4	231.7	219.6	213.6	213.6
35°	5358.6	3348.4	528.5	383.7	314.9	257.0	223.2	207.5	200.3	194.3	194.3
37.5°	5572.2	3180.7	448.9	348.7	276.3	224.4	196.7	187.0	181.0	175.0	175.0
40°	5789.4	2969.5	407.8	316.1	244.9	199.1	175.0	166.5	160.5	155.7	154.4
42.5°	6056.0	2725.8	381.3	286.0	217.2	176.2	154.4	144.8	140.0	135.1	132.7
45°	6364.9	2515.8	359.6	255.8	194.3	156.9	133.9	124.3	117.0	111.0	109.8
47.5°	6810.2	2363.8	330.6	223.2	172.5	136.3	115.8	105.0	94.1	88.1	86.9
50°	7378.5	2238.3	293.2	194.3	150.8	115.8	96.5	83.3	73.6	67.6	67.6
52.5°	7660.8	2074.2	259.4	168.9	126.7	97.7	78.4	62.7	57.9	51.9	51.9
55°	7774.3	1948.7	225.6	143.6	105.0	80.8	61.5	48.3	44.6	41.0	39.8
57.5°	8092.8	1912.5	196.7	121.9	86.9	64.0	47.1	36.2	33.8	29.0	29.0
60°	8605.6	1930.6	170.1	103.8	70.0	49.5	35.0	27.8	25.3	20.5	20.5
62.5°	9159.5	1907.7	143.6	89.3	54.3	36.2	24.1	20.5	20.5	12.1	10.9
65°	9265.6	1698.9	123.1	73.6	42.2	26.5	15.7	13.3	18.1	2.4	0.0
67.5°	8599.6	1317.6	106.2	56.7	31.4	20.5	12.1	6.0	15.7	0.0	0.0
70°	6876.5	837.4	85.7	41.0	24.1	16.9	9.7	2.4	12.1	0.0	0.0
72.5°	4862.7	486.3	67.6	29.0	20.5	13.3	7.2	0.0	7.2	0.0	0.0
75°	2459.1	259.4	42.2	21.7	15.7	9.7	4.8	0.0	1.2	0.0	0.0
77.5°	532.1	120.7	26.5	15.7	10.9	6.0	2.4	0.0	0.0	0.0	0.0
80°	115.8	53.1	16.9	9.7	6.0	3.6	0.0	0.0	0.0	0.0	0.0
82.5°	42.2	27.8	8.4	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	22.9	14.5	4.8	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	12.1	4.8	1.2	1.2	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)