

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: P319500

Luminaire Tested: **GLEON-SA6D-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319500
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
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-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33420 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

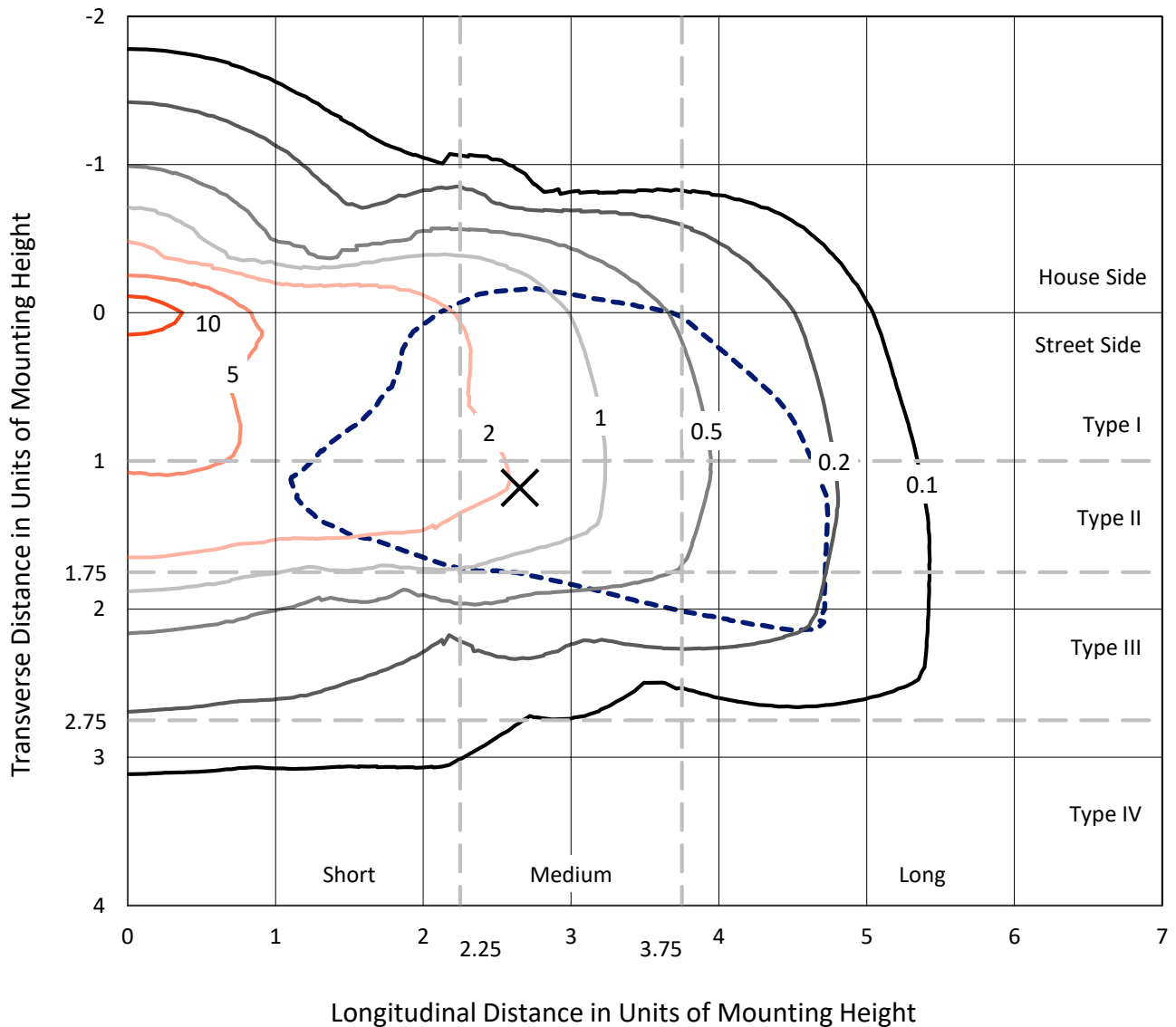
Input Watts (W): 382
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P319500
 CATALOG NUMBER: GLEON-SA6D-827-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

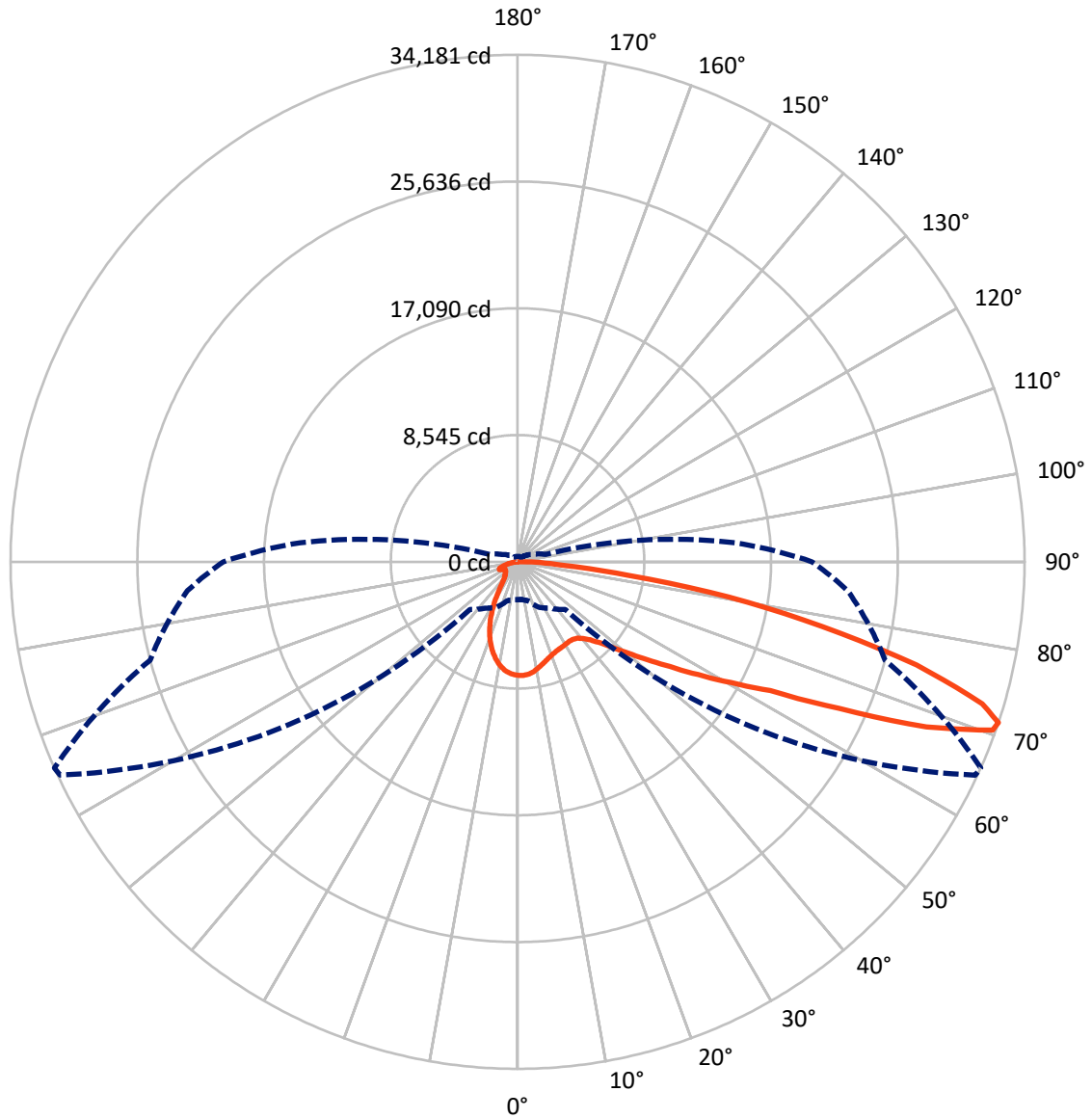
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.2 fc
 Type III - Medium - N/A

REPORT NUMBER: P319500
CATALOG NUMBER: GLEON-SA6D-827-U-SL2

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

REPORT NUMBER: P319500
 CATALOG NUMBER: GLEON-SA6D-827-U-SL2

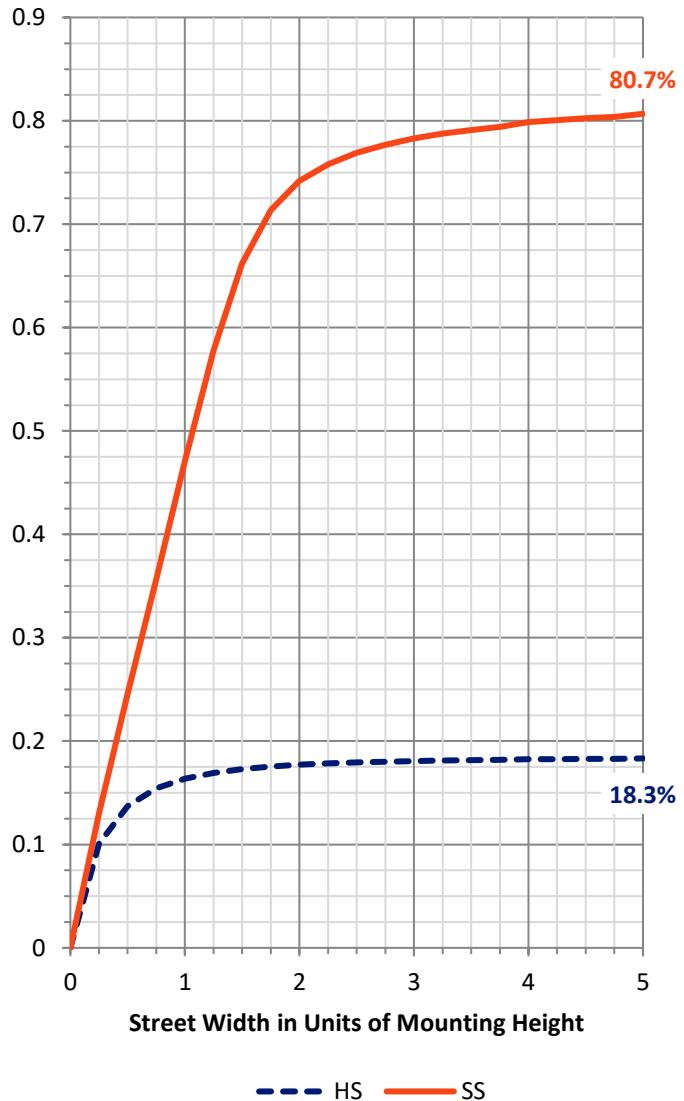
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6193.6	0.0	6193.6
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	27226.4	0.0	27226.4
	% Fixture	81.5	0.0	81.5
Total	Lumens	33420.0	0.0	33420.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	673.9	2.0
10°-20°	1616.3	4.8
20°-30°	2171.1	6.5
30°-40°	2856.0	8.5
40°-50°	4154.8	12.4
50°-60°	6490.2	19.4
60°-70°	8130.1	24.3
70°-80°	6201.4	18.6
80°-90°	1126.1	3.4
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°	33420.0	100.0
0°-180°	33420.0	100.0

Coefficient of Utilization

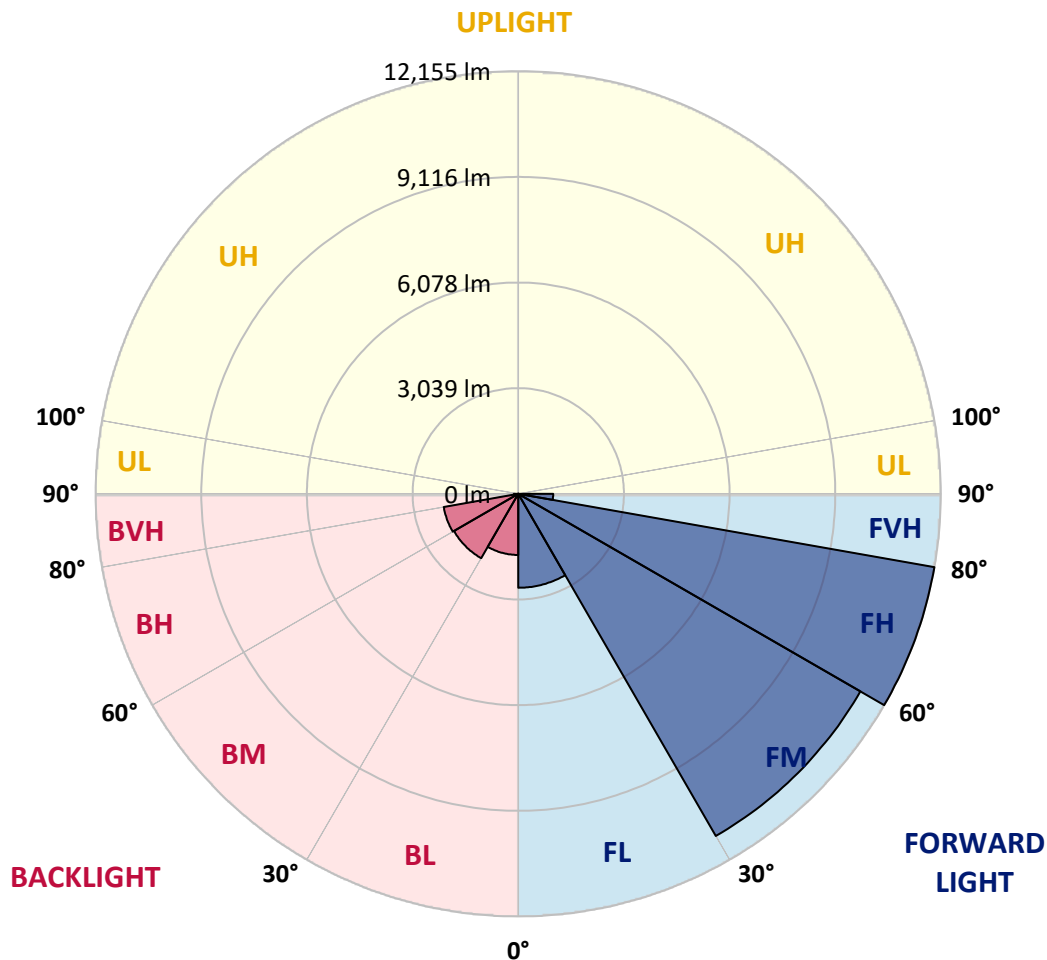


REPORT NUMBER: P319500
 CATALOG NUMBER: GLEON-SA6D-827-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2702.5	8.1			
FM (30°-60°)	11364.5	34.0			
FH (60°-80°)	12155.2	36.4			G5
FVH (80°-90°)	1004.2	3.0			G5
BL (0°-30°)	1758.8	5.3	B3/2500		
BM (30°-60°)	2136.6	6.4	B2/2500		
BH (60°-80°)	2176.3	6.5	B3/2500		G3/2500
BVH (80°-90°)	121.9	0.4			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5
 Type III Medium





REPORT NUMBER: P319500
 CATALOG NUMBER: GLEON-SA6D-827-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7655.9	7655.9	7655.9	7655.9	7655.9	7655.9	7655.9	7655.9	7655.9	7655.9	7655.9
2.5°	7513.9	7502.4	7537.0	7572.8	7586.6	7609.7	7644.3	7664.0	7662.8	7666.3	7654.7
5°	7015.5	7000.5	7069.7	7126.3	7234.7	7357.0	7505.9	7612.0	7614.3	7674.3	7690.5
7.5°	6543.6	6533.2	6612.8	6703.9	6829.7	7016.6	7257.8	7486.3	7500.1	7662.8	7719.3
10°	6165.1	6162.8	6240.1	6339.3	6485.9	6694.7	6971.6	7306.3	7327.0	7607.4	7724.0
12.5°	5869.7	5874.3	5941.2	6054.3	6208.9	6427.0	6727.0	7104.3	7137.8	7519.7	7697.4
15°	5651.6	5670.1	5724.3	5838.5	5990.9	6212.4	6520.5	6917.4	6968.2	7421.6	7682.4
17.5°	5527.0	5547.8	5585.8	5680.5	5823.5	6037.0	6328.9	6763.9	6810.1	7346.6	7683.6
20°	5490.1	5507.4	5529.3	5587.0	5708.2	5902.0	6177.8	6625.5	6675.1	7286.6	7695.1
22.5°	5562.8	5575.5	5577.8	5573.2	5647.0	5805.1	6068.2	6523.9	6577.0	7247.4	7703.2
25°	5718.5	5735.8	5723.2	5680.5	5656.2	5753.2	6011.6	6457.0	6510.1	7218.6	7687.0
27.5°	5952.8	5955.1	5944.7	5889.3	5775.1	5758.9	5994.3	6417.8	6468.6	7185.1	7653.6
30°	6271.2	6286.2	6267.8	6192.8	6005.9	5851.2	6015.1	6379.7	6425.9	7142.4	7599.3
32.5°	6643.9	6680.9	6679.7	6601.2	6333.5	6057.8	6100.5	6356.6	6392.4	7097.4	7533.6
35°	7030.5	7081.3	7175.9	7142.4	6811.2	6384.3	6264.3	6393.5	6417.8	7091.6	7487.4
37.5°	7432.0	7482.8	7677.8	7767.8	7380.1	6851.6	6522.8	6523.9	6535.5	7162.0	7483.9
40°	7852.0	7906.3	8199.3	8433.6	8117.4	7443.6	6939.3	6796.2	6783.6	7335.1	7552.0
42.5°	8440.5	8489.0	8840.9	9139.7	8935.5	8201.7	7515.1	7216.3	7189.7	7674.3	7770.1
45°	9184.7	9226.3	9600.1	9919.8	9814.8	9067.0	8238.6	7794.3	7789.7	8239.7	8212.0
47.5°	10069.8	10102.1	10437.8	10747.1	10785.1	10062.8	9147.8	8686.3	8611.3	9015.1	8896.3
50°	10991.7	11027.5	11255.9	11588.2	11870.9	11395.5	10317.8	9779.0	9678.6	10038.6	9865.5
52.5°	11602.1	11649.4	11847.9	12269.0	13091.7	12856.3	11701.3	11103.6	10951.3	11279.0	11146.3
55°	11329.8	11435.9	11739.4	12414.4	14067.9	15087.9	13407.9	12648.6	12476.7	12749.0	12670.6
57.5°	10091.7	10237.1	10651.3	11693.2	14205.2	17054.1	15987.9	14468.3	14347.1	14268.7	14304.4
60°	7829.0	7968.6	8482.0	9840.1	13248.6	18489.5	19870.7	16711.4	16536.0	15794.1	15826.4
62.5°	5540.8	5470.5	5822.4	6815.9	10765.5	18658.0	24288.8	19711.4	19134.5	17404.9	17262.9
65°	4225.4	4209.3	4367.4	4683.5	6520.5	16642.2	26920.8	24753.8	23852.6	19299.5	18964.9
67.5°	3472.0	3443.1	3598.9	4059.3	4198.9	10736.7	26978.4	30603.9	29718.9	21658.0	20933.4
70°	2854.7	2822.3	2967.7	3562.0	3880.4	5445.1	22705.7	34029.7	33982.4	24644.2	22419.5
71°	2559.3	2536.2	2710.4	3370.4	3812.4	4538.1	19604.1	34038.9	34180.9	25655.0	22331.8
72.5°	2083.9	2092.0	2276.6	3000.0	3761.6	4007.4	14408.3	32452.4	32752.4	26618.4	21534.5
75°	1384.6	1391.6	1633.9	2307.7	3647.4	3920.8	7919.0	27231.1	27782.7	26041.5	19650.3
77.5°	930.0	927.7	1092.7	1583.1	3177.7	3920.8	4643.1	20366.8	20972.6	20721.1	15149.1
80°	640.4	635.8	752.3	1092.7	2405.8	3968.1	3589.7	14273.3	14456.7	11190.2	6157.0
82.5°	392.3	395.8	491.5	771.9	1637.3	3571.2	3388.9	7782.8	7583.2	3138.5	1538.1
85°	225.0	223.8	313.9	522.7	1051.2	3013.9	3304.7	3349.7	3072.7	945.0	556.2
87.5°	80.8	86.5	168.5	289.6	602.3	2098.9	2803.9	1742.3	1570.4	426.9	251.5
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: P319500
 CATALOG NUMBER: GLEON-SA6D-827-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7655.9	7655.9	7655.9	7655.9	7655.9	7655.9	7655.9	7655.9	7655.9	7655.9	7655.9
2.5°	7646.6	7653.6	7645.5	7599.3	7560.1	7496.6	7460.9	7411.3	7396.3	7389.3	7407.8
5°	7675.5	7677.8	7609.7	7488.6	7352.4	7192.0	7076.6	6934.7	6867.8	6838.9	6857.4
7.5°	7702.0	7691.6	7542.8	7310.9	7059.3	6780.1	6532.0	6304.7	6172.0	6117.8	6122.4
10°	7705.5	7661.6	7422.8	7063.9	6673.9	6264.3	5883.5	5532.8	5311.2	5167.0	5210.8
12.5°	7669.7	7595.9	7246.3	6744.3	6203.2	5644.7	5130.1	4603.9	4287.8	4141.2	4145.8
15°	7642.0	7508.2	7029.3	6368.2	5641.2	4901.6	4198.9	3580.4	3243.5	3093.5	3023.1
17.5°	7619.0	7413.6	6777.8	5944.7	4977.8	4039.7	3195.0	2643.5	2458.9	2415.0	2396.6
20°	7586.6	7313.2	6497.4	5454.3	4222.0	3075.0	2333.1	2060.8	2062.0	2112.7	2119.6
22.5°	7541.6	7198.9	6198.5	4903.9	3410.8	2239.6	1828.9	1750.4	1830.0	1926.9	1944.3
25°	7474.7	7063.9	5866.2	4295.8	2600.8	1721.6	1562.3	1558.9	1655.8	1757.3	1772.3
27.5°	7380.1	6887.4	5497.0	3642.7	1916.6	1463.1	1399.6	1423.9	1495.4	1569.3	1575.0
30°	7253.2	6682.0	5089.7	2953.9	1502.3	1302.7	1295.8	1317.7	1361.6	1413.5	1418.1
32.5°	7113.6	6473.2	4654.7	2287.0	1286.6	1216.2	1223.1	1233.5	1254.2	1275.0	1279.6
35°	6986.6	6259.7	4209.3	1737.7	1183.9	1159.6	1155.0	1152.7	1155.0	1148.1	1149.2
37.5°	6904.7	6083.2	3745.4	1383.5	1125.0	1110.0	1096.2	1078.9	1059.2	1047.7	1050.0
40°	6874.7	5951.6	3275.8	1195.4	1076.6	1066.2	1039.6	1002.7	979.6	972.7	972.7
42.5°	6955.5	5883.5	2822.3	1100.8	1036.2	1018.9	975.0	932.3	915.0	913.9	912.7
45°	7202.4	5911.2	2390.8	1048.9	999.2	965.8	908.1	872.3	860.8	863.1	861.9
47.5°	7645.5	6085.5	2021.6	1014.2	962.3	918.5	853.9	825.0	811.2	811.2	812.3
50°	8399.0	6492.8	1727.3	985.4	931.2	874.6	814.6	778.9	760.4	759.2	759.2
52.5°	9496.3	7222.0	1543.9	961.2	896.6	835.4	775.4	730.4	708.5	703.9	701.5
55°	10871.7	8267.4	1493.1	945.0	850.4	792.7	728.1	683.1	658.9	648.5	647.3
57.5°	12409.8	9539.0	1593.5	925.4	803.1	741.9	676.2	633.5	608.1	595.4	594.2
60°	13966.3	10927.1	2003.1	897.7	763.9	686.5	623.1	583.9	558.5	544.6	542.3
62.5°	15525.2	12390.2	2839.7	895.4	736.2	633.5	568.9	535.4	511.2	496.2	492.7
65°	17283.7	13991.7	3790.4	956.6	726.9	585.0	513.5	486.9	466.2	452.3	451.2
67.5°	19303.0	15799.8	3699.3	1082.3	758.1	541.2	461.5	440.8	425.8	414.2	413.1
70°	20250.3	15517.1	2299.6	1171.2	801.9	498.5	411.9	396.9	385.4	377.3	373.9
71°	19853.4	14733.7	1928.1	1160.8	797.3	480.0	392.3	380.8	369.2	362.3	358.9
72.5°	18771.0	13436.7	1608.5	1080.0	745.4	446.5	366.9	355.4	345.0	336.9	334.6
75°	16844.1	12000.2	1287.7	863.1	594.2	377.3	321.9	309.2	301.2	296.5	291.9
77.5°	12382.1	8564.0	995.8	681.9	437.3	308.1	274.6	265.4	257.3	250.4	246.9
80°	4743.5	3317.4	670.4	508.9	320.8	243.5	221.5	216.9	208.8	204.2	204.2
82.5°	1277.3	991.2	357.7	308.1	214.6	177.7	169.6	167.3	160.4	151.2	152.3
85°	516.9	437.3	200.8	169.6	131.5	105.0	114.2	115.4	107.3	95.8	96.9
87.5°	227.3	185.8	111.9	75.0	57.7	40.4	51.9	51.9	47.3	39.2	35.8
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)