

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: P383309

Luminaire Tested: **GLEON-SA6B-735-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383309
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA6B-735-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30254.8 lumens
Efficiency: N/A
Efficacy: 121.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

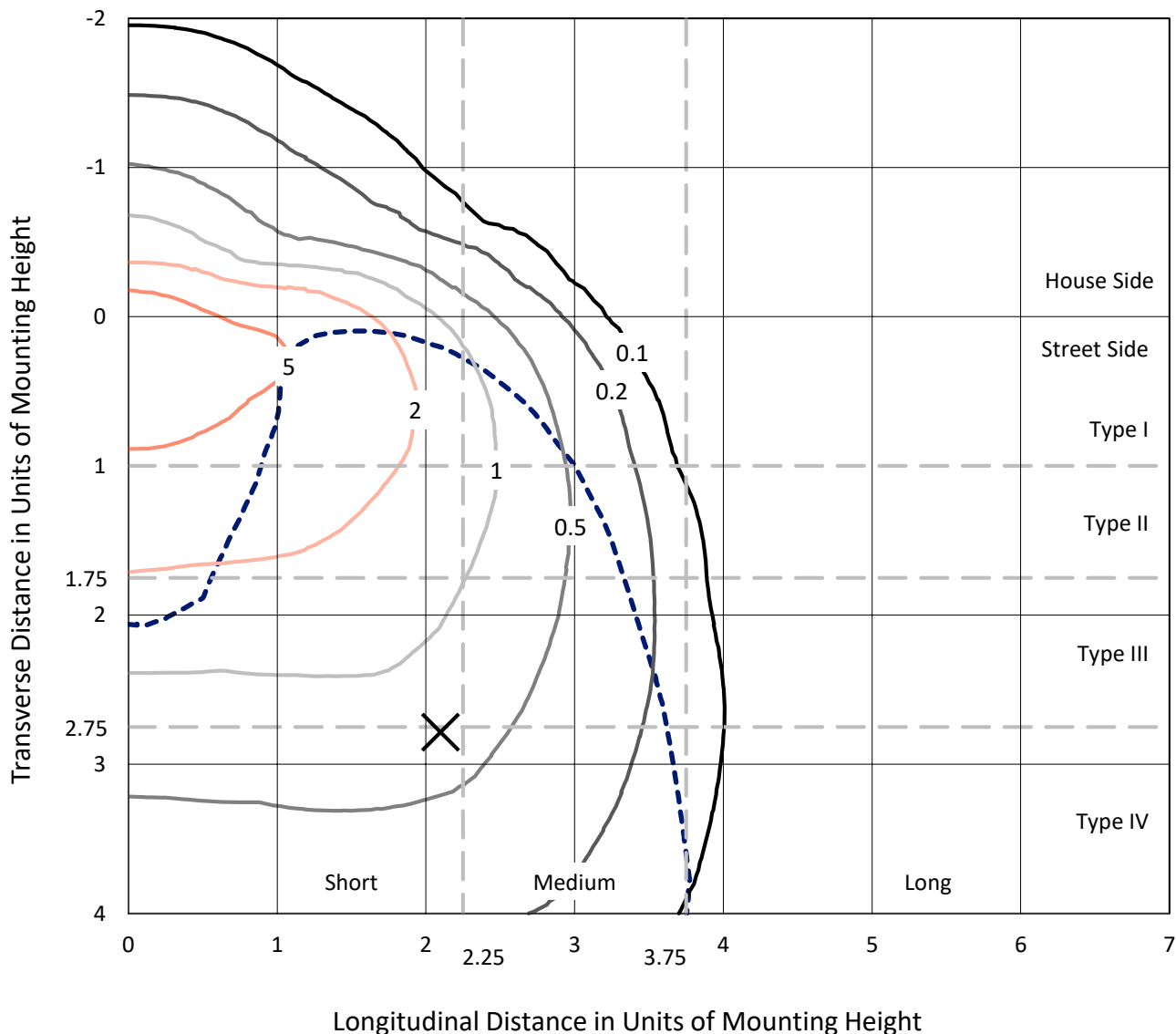
Input Watts (W): 249
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383309
 CATALOG NUMBER: GLEON-SA6B-735-U-SL4

Iso-Footcandle Lines of Horizontal Illumination

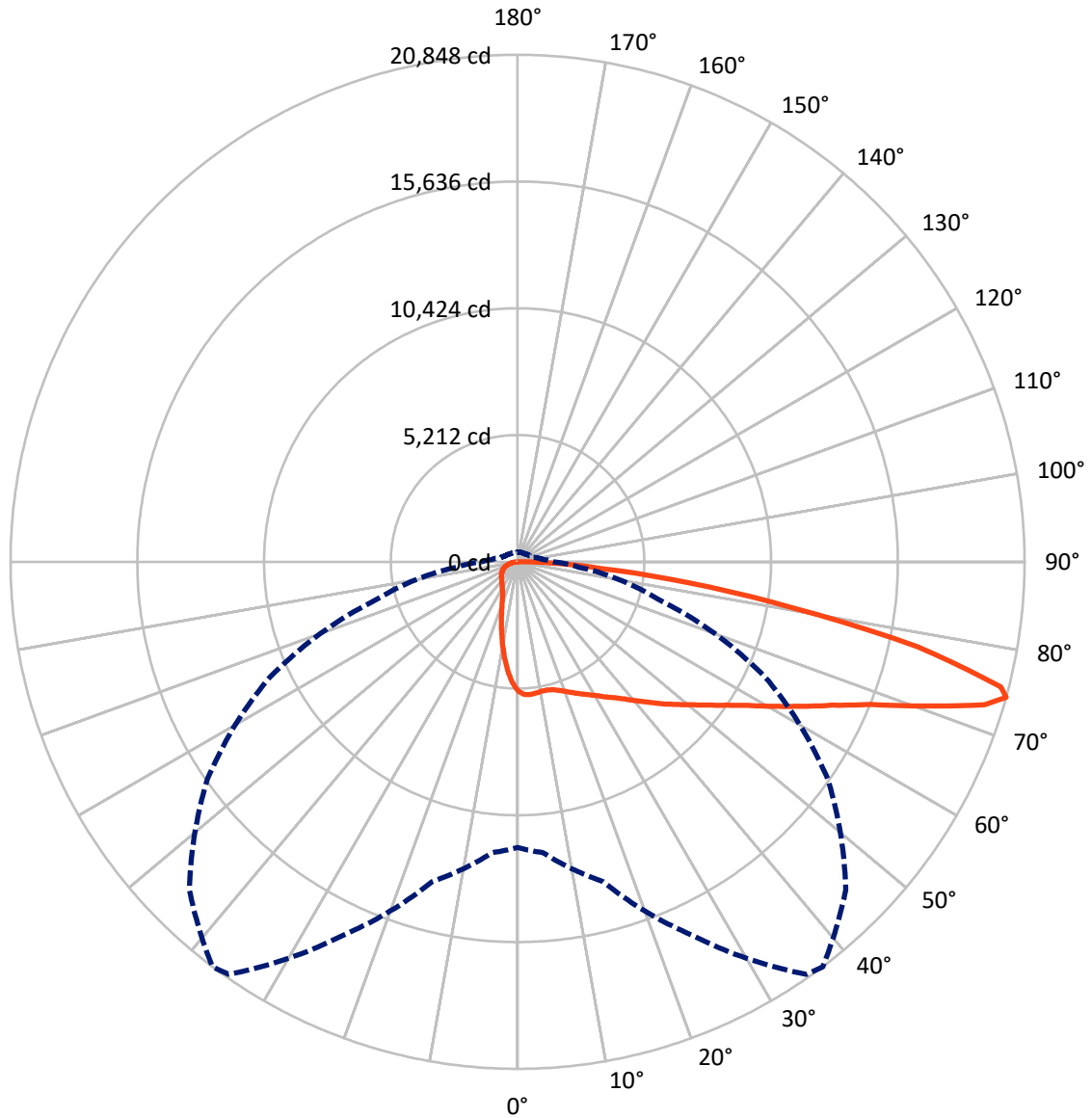
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type IV - Short - N/A

REPORT NUMBER: P383309
CATALOG NUMBER: GLEON-SA6B-735-U-SL4

Luminous Intensity Polar Plot



— Vertical Plane Through 37-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

REPORT NUMBER: P383309
 CATALOG NUMBER: GLEON-SA6B-735-U-SL4

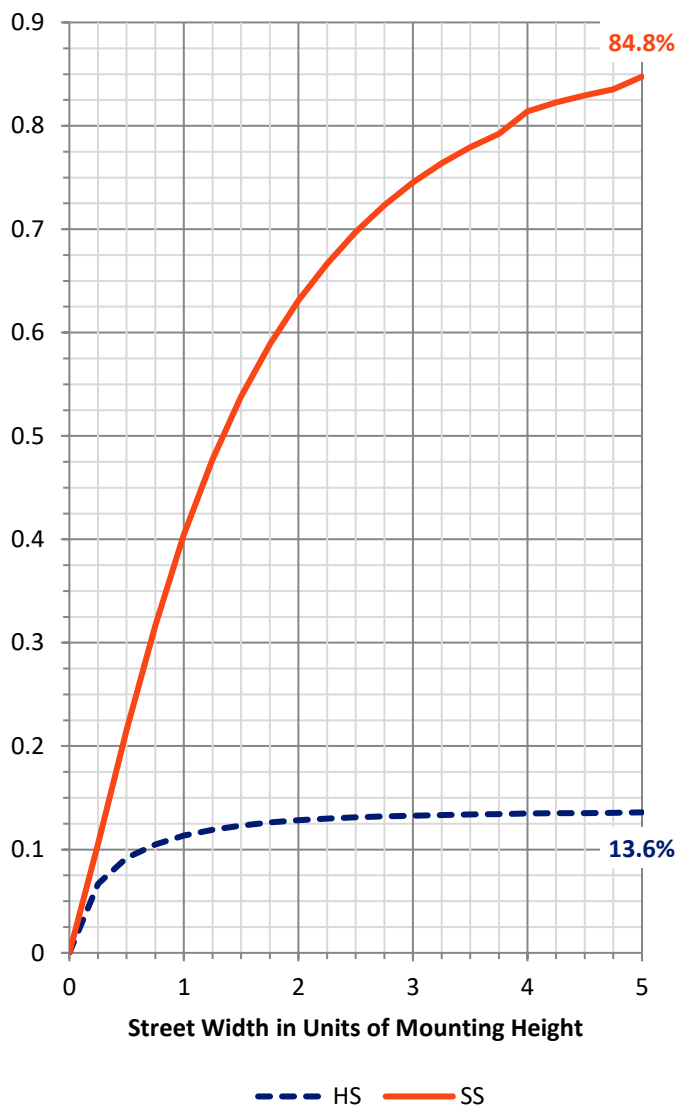
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4162.9	0.0	4162.9
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	26091.9	0.0	26091.9
	% Fixture	86.2	0.0	86.2
Total	Lumens	30254.8	0.0	30254.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	469.4	1.6
10°-20°	1203.3	4.0
20°-30°	1854.0	6.1
30°-40°	2696.0	8.9
40°-50°	3968.1	13.1
50°-60°	5572.5	18.4
60°-70°	7053.0	23.3
70°-80°	6210.5	20.5
80°-90°	1227.9	4.1
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°	30254.8	100.0
0°-180°	30254.8	100.0

Coefficient of Utilization



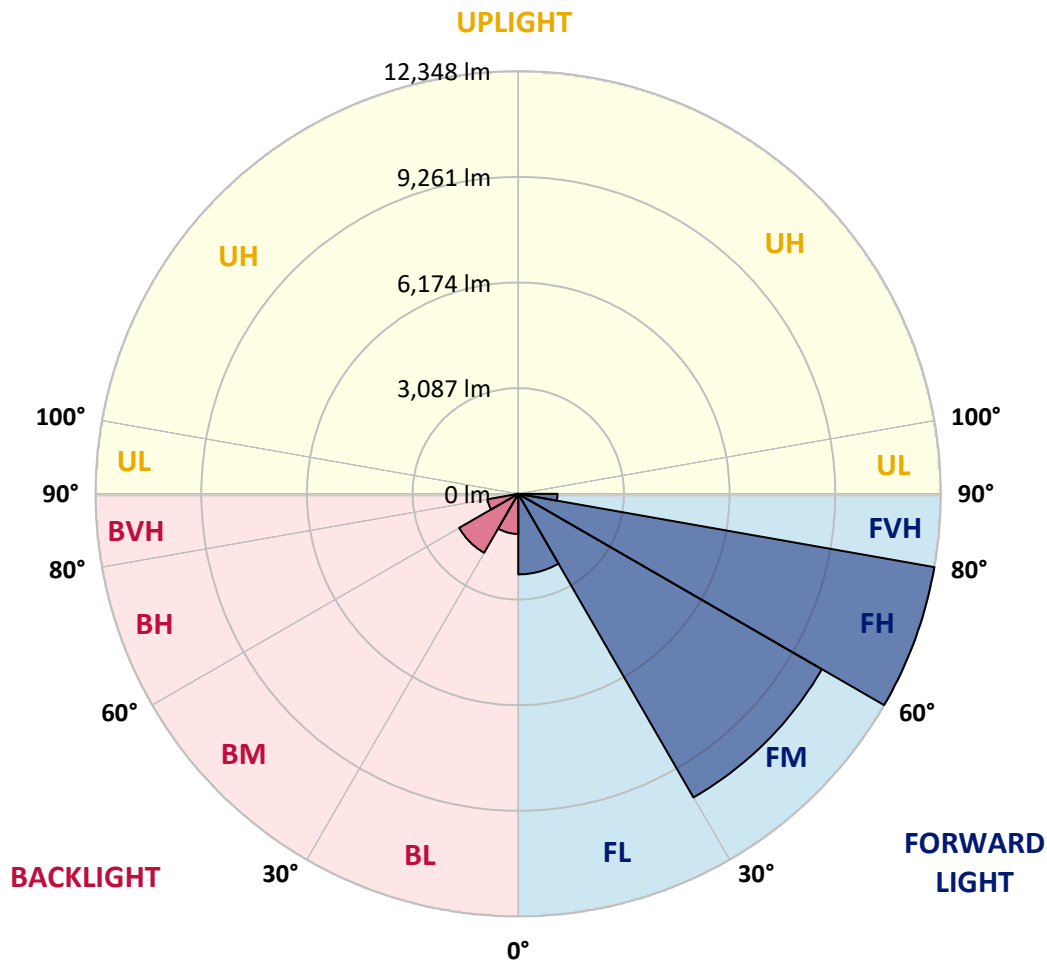
REPORT NUMBER: P383309
 CATALOG NUMBER: GLEON-SA6B-735-U-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2354.2	7.8			
FM (30°-60°)	10244.5	33.9			
FH (60°-80°)	12348.5	40.8			G5
FVH (80°-90°)	1144.8	3.8			G5
BL (0°-30°)	1172.6	3.9	B3/2500		
BM (30°-60°)	1992.1	6.6	B2/2500		
BH (60°-80°)	915.0	3.0	B2/1000		G2/1000
BVH (80°-90°)	83.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





REPORT NUMBER: P383309
 CATALOG NUMBER: GLEON-SA6B-735-U-SL4

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	5330.8	5330.8	5330.8	5330.8	5330.8	5330.8	5330.8	5330.8	5330.8	5330.8	5330.8
2.5°	5513.0	5514.1	5513.0	5504.5	5484.2	5467.2	5453.4	5433.1	5388.4	5354.3	5303.1
5°	5565.3	5558.8	5554.5	5538.6	5506.7	5487.5	5460.8	5422.4	5348.9	5280.7	5197.6
7.5°	5540.8	5533.3	5523.7	5504.5	5468.3	5452.3	5415.0	5364.9	5276.5	5187.0	5067.5
10°	5465.0	5463.0	5458.7	5454.4	5423.5	5410.7	5376.6	5323.3	5235.9	5127.2	4987.6
12.5°	5380.9	5386.2	5403.3	5425.6	5411.7	5405.4	5384.1	5347.8	5258.3	5141.1	4972.7
15°	5327.6	5342.5	5388.4	5446.9	5458.7	5456.5	5451.2	5427.8	5332.9	5202.9	5006.8
17.5°	5309.4	5333.9	5421.3	5518.3	5552.5	5559.9	5562.1	5521.6	5416.0	5278.5	5042.0
20°	5342.5	5373.4	5501.3	5634.5	5688.9	5693.2	5683.6	5613.2	5494.9	5343.5	5061.2
22.5°	5442.7	5470.4	5630.3	5780.5	5842.3	5848.7	5819.9	5713.4	5578.0	5420.3	5087.8
25°	5635.6	5669.7	5829.5	5979.8	6011.7	6012.9	5971.3	5839.1	5686.7	5527.9	5145.3
27.5°	5887.1	5921.2	6065.0	6212.1	6195.1	6185.5	6129.0	5996.8	5828.5	5676.1	5247.7
30°	6167.4	6204.7	6341.0	6445.6	6405.0	6385.9	6340.0	6169.5	6025.6	5878.5	5404.3
32.5°	6457.3	6491.4	6610.7	6682.1	6630.9	6622.5	6553.2	6397.6	6282.5	6187.6	5657.9
35°	6754.6	6779.2	6896.3	6936.9	6868.7	6866.5	6847.3	6704.5	6632.1	6676.8	6026.7
37.5°	7058.3	7064.8	7164.9	7167.0	7146.7	7155.3	7175.5	7086.0	7106.3	7245.9	6506.3
40°	7329.0	7346.1	7418.6	7440.9	7476.1	7505.9	7607.2	7548.5	7705.2	7952.4	7103.1
42.5°	7529.4	7562.4	7678.6	7736.1	7850.2	7897.1	8039.9	8094.2	8409.6	8780.6	7812.9
45°	7698.9	7750.0	7936.5	8054.8	8247.6	8329.7	8534.4	8716.6	9205.7	9679.0	8559.9
47.5°	7882.1	7947.1	8180.6	8406.5	8668.6	8761.4	9133.3	9406.1	10055.1	10582.7	9264.4
50°	8151.8	8201.8	8429.9	8784.8	9112.0	9231.4	9746.1	10137.2	10918.4	11443.8	9875.1
52.5°	8527.9	8508.8	8701.7	9199.4	9638.4	9785.5	10400.4	10915.2	11793.4	12222.8	10390.9
55°	8906.3	8874.3	9009.6	9633.1	10252.3	10406.9	11120.9	11696.4	12625.7	12924.1	10786.2
57.5°	9327.3	9266.5	9380.6	10122.3	10951.5	11135.8	11927.6	12526.6	13444.2	13491.0	11037.7
60°	9761.0	9679.0	9806.9	10728.7	11839.2	12056.6	12871.8	13336.5	14215.8	13945.1	11118.8
62.5°	10140.5	10082.9	10280.0	11405.4	12839.9	13078.6	13799.1	14197.6	14976.7	14133.7	10826.7
65°	10471.9	10481.5	10822.4	12166.4	13955.7	14210.5	14862.7	15259.1	15575.7	14021.8	10143.6
67.5°	10867.2	10921.6	11503.5	13168.2	15360.4	15639.6	16410.1	16416.5	15910.3	13365.3	8798.7
70°	11443.8	11555.7	12440.3	14557.9	17357.5	17741.2	18335.8	17096.4	15440.3	11585.6	6923.0
72.5°	11955.4	12164.2	13436.7	16147.9	19791.7	20082.6	19462.4	16704.2	13476.1	8682.5	4313.0
74°	11747.6	12006.5	13617.9	16931.3	20708.2	20847.8	19081.9	15559.6	11236.0	6012.9	2506.6
75°	11300.0	11581.3	13353.5	16923.8	20592.0	20514.3	18163.2	14252.0	9253.7	4101.0	1667.8
77.5°	9119.5	9416.8	11252.0	14504.6	16884.4	16810.8	13952.5	9560.7	4053.0	1345.0	847.2
80°	5302.0	5529.0	6984.8	9211.1	11385.2	11518.4	9175.9	4730.8	1594.3	755.6	574.4
82.5°	2355.2	2511.9	3374.1	4702.0	6870.7	7042.3	4805.4	2478.8	984.7	459.3	345.3
85°	1545.3	1661.5	2048.3	2239.1	3271.8	3389.1	2352.1	1930.1	650.1	252.5	253.7
87.5°	1111.5	1223.5	1521.9	1328.9	1501.7	1421.7	1279.9	1786.1	261.1	143.8	85.2
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: P383309
 CATALOG NUMBER: GLEON-SA6B-735-U-SL4

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	5330.8	5330.8	5330.8	5330.8	5330.8	5330.8	5330.8	5330.8	5330.8	5330.8	5330.8
2.5°	5280.7	5263.6	5225.2	5152.8	5112.3	5078.2	5021.7	4988.7	4973.7	4972.7	4979.1
5°	5149.6	5110.2	5011.1	4889.6	4792.6	4704.1	4594.4	4528.3	4481.4	4453.7	4461.2
7.5°	4997.2	4935.4	4779.8	4585.8	4430.3	4258.7	4089.2	3988.0	3909.1	3850.5	3861.2
10°	4892.8	4807.5	4580.5	4301.3	4042.4	3792.9	3559.5	3419.9	3309.1	3223.8	3230.2
12.5°	4857.6	4742.5	4428.1	4055.1	3691.7	3350.7	3045.9	2831.6	2717.6	2620.6	2628.1
15°	4863.0	4708.4	4300.2	3833.4	3376.2	2946.8	2576.9	2326.4	2172.0	2104.8	2105.9
17.5°	4867.1	4668.9	4166.0	3595.8	3064.0	2569.5	2167.7	1914.1	1768.1	1706.2	1707.3
20°	4853.4	4605.0	3999.7	3322.9	2737.8	2223.1	1834.1	1618.8	1508.0	1460.0	1460.0
22.5°	4835.2	4529.4	3812.1	3049.0	2416.0	1922.6	1595.4	1431.2	1367.3	1335.4	1334.3
25°	4843.8	4472.8	3620.3	2767.7	2119.7	1682.7	1436.6	1327.9	1285.3	1265.0	1263.9
27.5°	4889.6	4446.2	3443.4	2487.4	1860.8	1502.7	1330.1	1253.3	1225.5	1212.8	1212.8
30°	4972.7	4446.2	3259.0	2248.7	1645.5	1369.5	1248.0	1195.7	1176.5	1168.1	1168.1
32.5°	5117.6	4470.8	3081.0	2012.1	1473.9	1265.0	1179.8	1144.6	1129.7	1125.4	1125.4
35°	5367.0	4553.9	2907.3	1788.3	1335.4	1179.8	1114.8	1094.5	1083.9	1082.7	1086.0
37.5°	5717.7	4723.3	2744.2	1623.1	1237.3	1110.5	1060.4	1044.5	1038.0	1043.3	1047.6
40°	6158.8	4953.5	2596.1	1473.9	1162.7	1055.1	1010.4	999.6	996.5	1003.9	1010.4
42.5°	6691.7	5264.7	2474.7	1366.3	1105.2	1008.2	967.7	954.9	951.7	960.2	968.7
45°	7268.3	5599.3	2389.3	1286.4	1060.4	973.0	930.3	916.5	910.1	914.4	924.0
47.5°	7792.6	5915.9	2355.2	1229.8	1017.8	943.2	897.4	880.3	869.6	867.6	875.0
50°	8234.9	6151.4	2371.3	1195.7	983.7	910.1	865.4	846.2	830.2	820.6	825.9
52.5°	8556.7	6299.5	2386.2	1180.8	957.0	873.9	830.2	812.1	790.8	774.8	774.8
55°	8790.2	6333.6	2353.1	1169.1	936.8	834.5	790.8	773.7	752.4	734.2	732.2
57.5°	8881.7	6237.7	2230.6	1152.0	922.9	797.1	749.2	736.4	718.3	697.0	696.0
60°	8758.1	5941.4	1994.0	1115.8	904.8	766.3	707.6	699.1	690.6	670.3	669.3
62.5°	8261.5	5291.4	1688.2	1042.3	868.6	733.2	669.3	673.5	674.6	660.7	658.6
65°	7361.0	4398.3	1389.7	946.4	814.2	693.8	629.8	650.1	661.9	659.7	656.5
67.5°	6052.3	3423.2	1177.7	845.1	742.8	639.4	587.2	610.6	620.2	627.7	625.6
70°	4492.0	2413.9	974.1	738.5	656.5	575.5	531.8	543.6	537.1	545.6	548.9
72.5°	2504.5	1448.4	794.0	632.0	566.9	500.9	470.0	467.8	454.0	454.0	454.0
74°	1502.7	1062.5	698.0	565.9	512.6	451.9	425.3	415.7	402.8	403.9	402.8
75°	1208.5	913.3	640.5	522.2	474.3	423.1	396.5	383.7	374.1	374.1	373.0
77.5°	763.0	693.8	515.8	415.7	379.4	348.5	330.4	313.3	313.3	312.3	311.2
80°	576.5	552.0	401.8	314.4	290.9	267.5	255.8	248.4	248.4	251.5	250.4
82.5°	395.3	415.7	282.4	219.6	207.8	190.8	188.6	189.7	186.5	182.2	181.2
85°	288.8	312.3	190.8	138.5	126.8	116.2	124.7	128.9	123.6	114.0	109.7
87.5°	110.9	204.7	102.3	57.6	53.3	45.8	53.3	55.4	59.7	46.9	48.0
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)