

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: P383110

Luminaire Tested: **GLEON-SA4C-735-U-SL3-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383110
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4C-735-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22706.5 lumens
Efficiency: N/A
Efficacy: 100.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G4

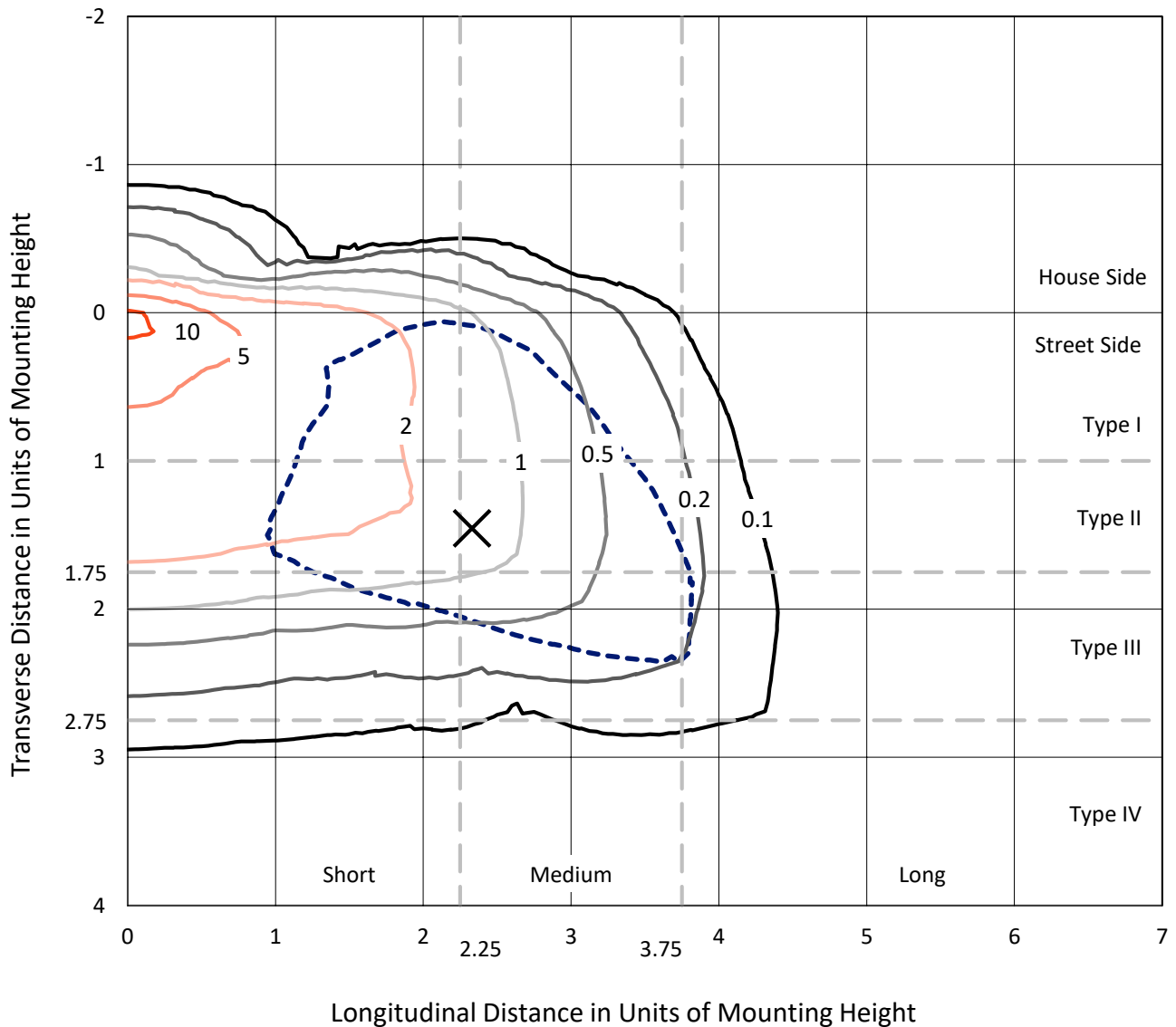
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P383110
 CATALOG NUMBER: GLEON-SA4C-735-U-SL3-HSS

Iso-Footcandle Lines of Horizontal Illumination

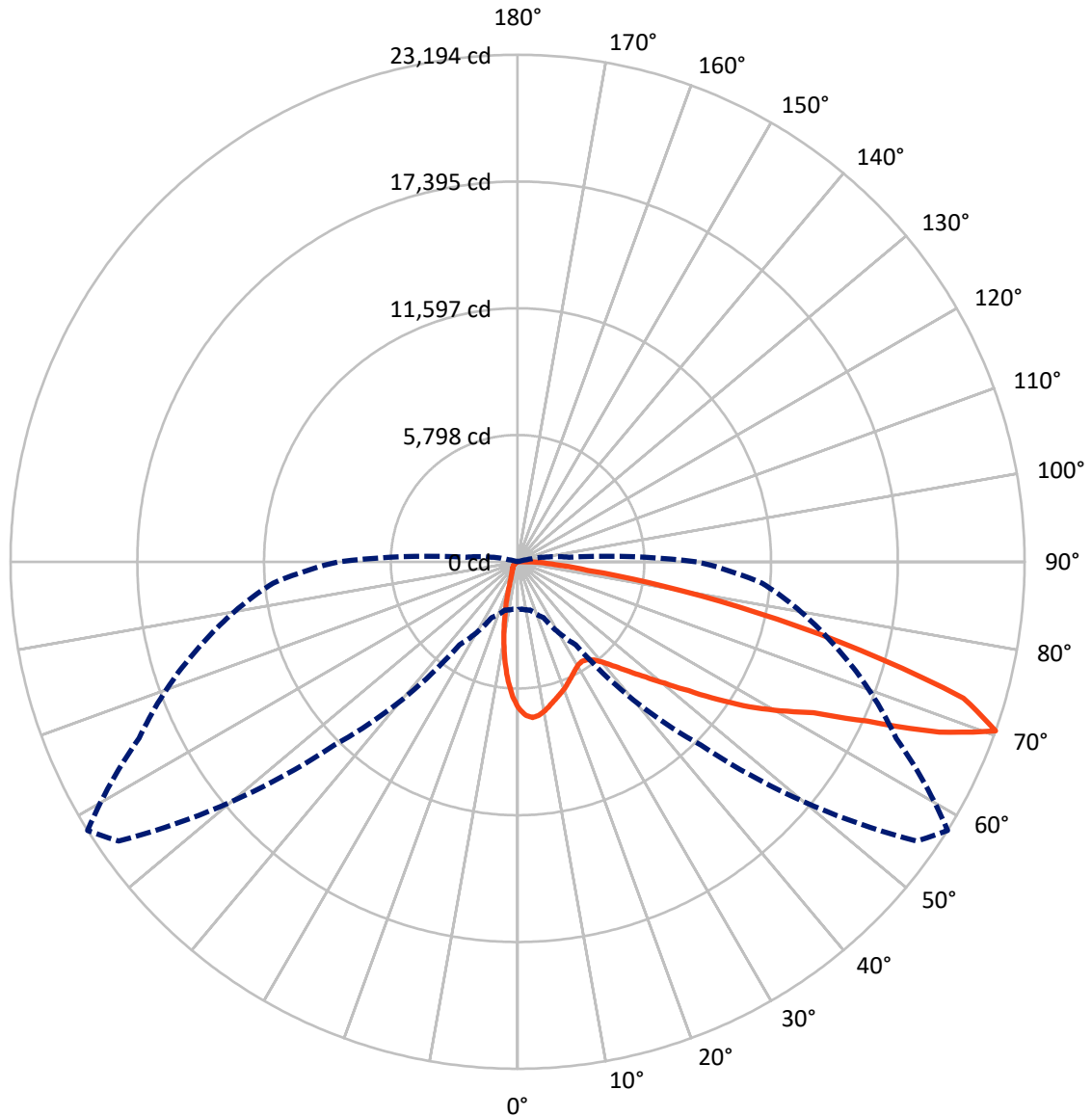
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.9 fc
 Type III - Medium - N/A

REPORT NUMBER: P383110
CATALOG NUMBER: GLEON-SA4C-735-U-SL3-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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 CATALOG NUMBER: GLEON-SA4C-735-U-SL3-HSS

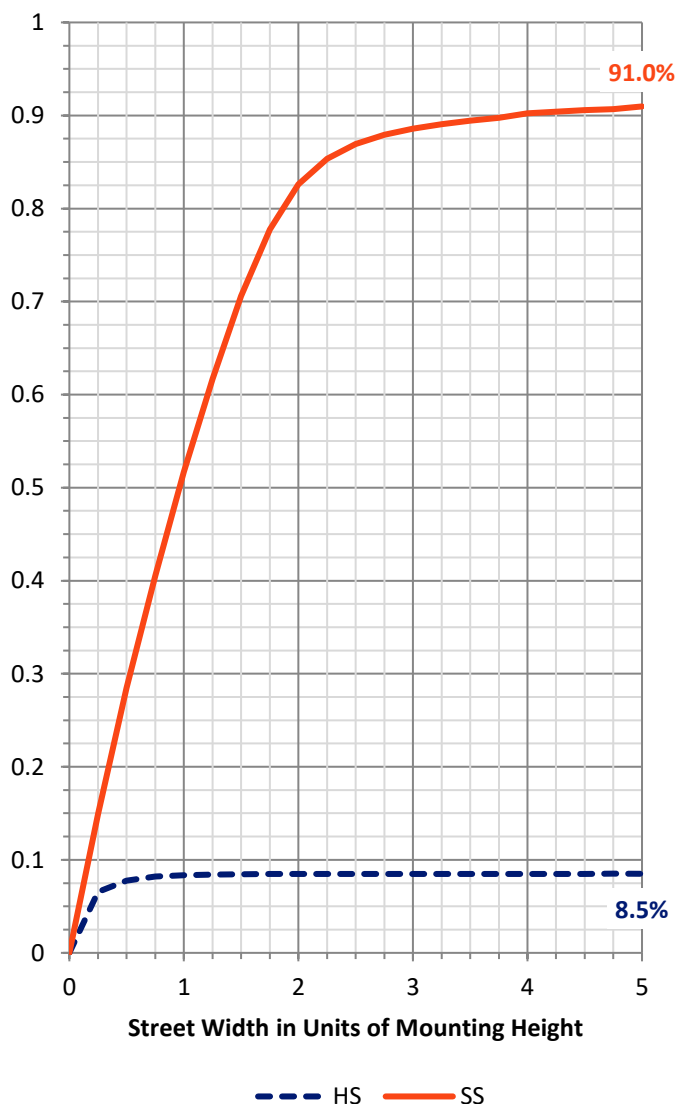
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1943.2	0.0	1943.2
	% Fixture	8.6	0.0	8.6
Street Side	Lumens	20763.3	0.0	20763.3
	% Fixture	91.4	0.0	91.4
Total	Lumens	22706.5	0.0	22706.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	548.5	2.4
10°-20°	1151.2	5.1
20°-30°	1513.4	6.7
30°-40°	2004.3	8.8
40°-50°	2995.8	13.2
50°-60°	4799.2	21.1
60°-70°	6049.3	26.6
70°-80°	3263.0	14.4
80°-90°	381.9	1.7
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°	22706.5	100.0
0°-180°	22706.5	100.0

Coefficient of Utilization

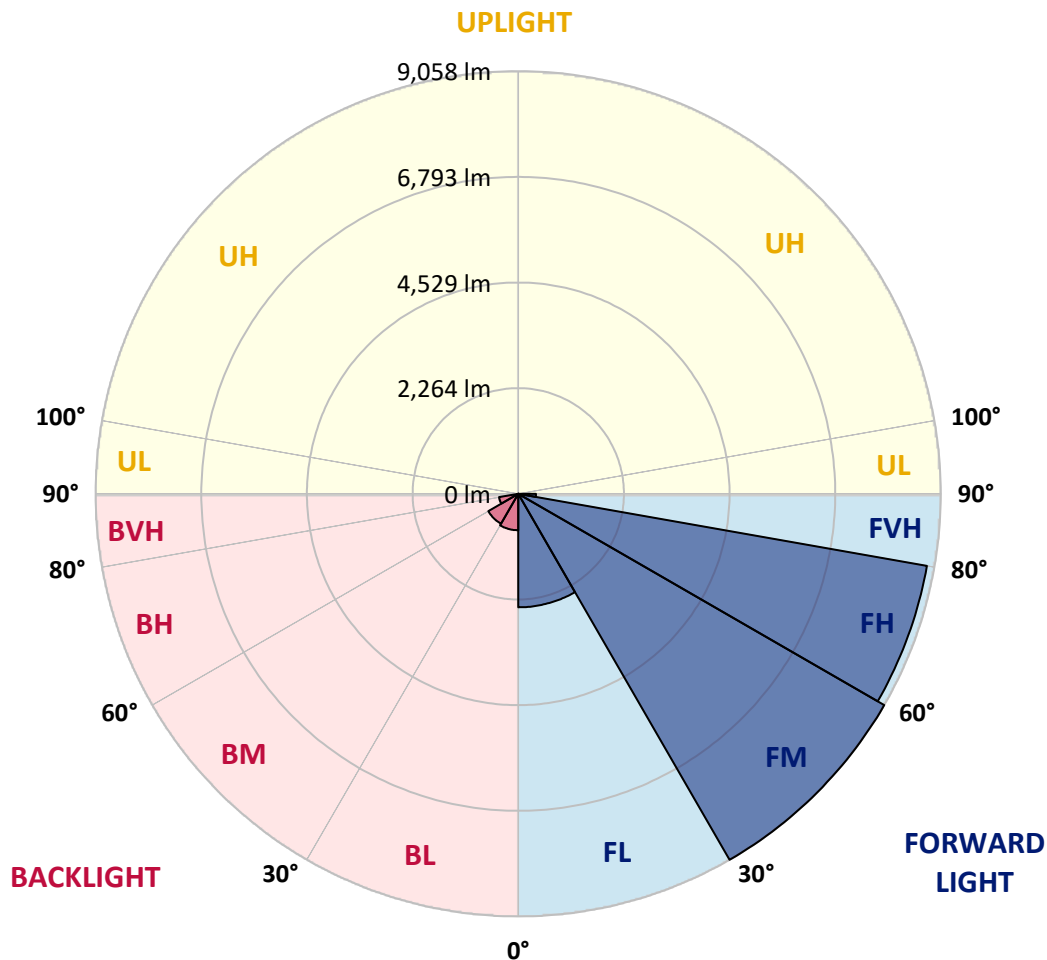


REPORT NUMBER: P383110
 CATALOG NUMBER: GLEON-SA4C-735-U-SL3-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2432.3	10.7			
FM (30°-60°)	9058.0	39.9			
FH (60°-80°)	8894.4	39.2			G4/12000
FVH (80°-90°)	378.6	1.7			G3/500
BL (0°-30°)	780.7	3.4	B2/1000		
BM (30°-60°)	741.3	3.3	B1/1000		
BH (60°-80°)	417.9	1.8	B1/500		G1/500
BVH (80°-90°)	3.3	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-G4
 Type III Medium





REPORT NUMBER: P383110

CATALOG NUMBER: GLEON-SA4C-735-U-SL3-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	6707.4	6707.4	6707.4	6707.4	6707.4	6707.4	6707.4	6707.4	6707.4	6707.4	6707.4
2.5°	7263.5	7245.6	7239.0	7227.6	7184.2	7141.7	7057.7	7034.0	6981.2	6855.6	6722.5
5°	7269.1	7268.2	7288.1	7283.3	7268.2	7248.4	7188.0	7156.8	7067.1	6887.7	6644.2
7.5°	6918.9	6936.9	6981.2	7017.1	7058.6	7112.5	7120.0	7089.7	7016.1	6822.6	6499.7
10°	6448.6	6477.1	6539.3	6610.2	6718.7	6826.4	6922.6	6918.9	6893.4	6702.7	6326.0
12.5°	5977.6	6010.6	6082.4	6187.2	6341.0	6516.6	6688.5	6712.1	6754.6	6595.0	6165.4
15°	5565.0	5593.3	5664.1	5792.5	5983.2	6219.3	6471.4	6514.8	6624.3	6511.0	6031.4
17.5°	5214.6	5232.6	5284.5	5427.1	5648.1	5934.1	6261.8	6346.7	6510.0	6444.9	5915.2
20°	4970.1	4973.0	5007.0	5107.0	5328.0	5648.1	6044.5	6166.4	6389.2	6388.3	5795.3
22.5°	4849.3	4839.9	4846.5	4904.0	5066.4	5375.1	5827.4	5971.9	6280.6	6340.1	5673.5
25°	4826.6	4819.1	4800.2	4807.7	4905.9	5136.3	5608.4	5775.5	6185.3	6310.9	5567.8
27.5°	4897.4	4905.0	4872.8	4838.8	4846.5	4981.5	5413.9	5607.5	6107.9	6310.9	5493.1
30°	5040.0	5043.8	5020.1	4975.8	4916.3	4938.0	5278.9	5472.4	6069.1	6354.3	5446.0
32.5°	5197.7	5218.4	5215.6	5179.7	5094.7	5007.0	5246.8	5423.3	6066.3	6450.6	5441.3
35°	5393.1	5416.7	5456.4	5448.8	5360.0	5215.6	5356.3	5495.1	6122.0	6609.2	5492.2
37.5°	5600.8	5636.7	5721.7	5762.3	5704.7	5541.3	5601.8	5700.9	6271.2	6866.0	5621.6
40°	5802.0	5842.5	5997.4	6157.0	6113.5	5945.4	5973.7	6053.1	6536.5	7235.1	5867.1
42.5°	5999.3	6059.7	6287.2	6549.7	6601.6	6467.5	6482.6	6545.9	6930.2	7743.1	6268.4
45°	6235.3	6303.3	6640.4	6964.2	7103.0	7044.5	7108.6	7150.2	7444.7	8414.5	6809.3
47.5°	6581.8	6660.2	7073.7	7442.9	7686.5	7724.3	7853.6	7881.0	8095.3	9196.2	7514.6
50°	7257.9	7279.6	7653.4	7988.6	8339.9	8566.4	8713.8	8734.6	8882.8	10050.7	8395.6
52.5°	8108.6	8122.7	8334.2	8558.9	8958.3	9420.9	9765.5	9794.9	9826.0	10883.5	9265.2
55°	8953.6	8951.7	9091.4	9223.6	9680.5	10352.8	11100.6	11118.6	10894.8	11673.7	9929.8
57.5°	9481.4	9532.3	9744.8	9914.7	10552.9	11415.0	12452.6	12518.8	12017.4	12259.1	10586.9
60°	9313.3	9337.8	9809.0	10437.8	11639.7	12924.8	13820.7	13837.8	12861.5	12843.5	11417.9
62.5°	7934.8	7948.1	8688.3	9984.6	12190.1	14883.0	15471.1	15194.6	13832.1	13654.6	12412.0
65°	5438.4	5524.4	6142.8	7745.1	11178.9	16111.3	18026.1	17568.1	15311.6	14823.4	13310.9
67.5°	3202.7	3184.7	3490.6	4670.8	8210.5	15295.5	21258.0	20802.9	17329.3	15606.2	13047.4
70°	2187.6	2175.3	2292.4	2827.8	4634.9	11865.4	22274.9	23193.6	19111.0	15079.3	11229.1
72.5°	1561.6	1568.3	1741.1	2197.1	2910.0	6913.2	19155.3	21329.7	18553.0	13145.7	8535.3
75°	1060.3	1078.3	1325.6	1802.5	2551.1	3517.1	13593.2	16214.2	15107.7	9554.0	4905.9
77.5°	570.3	590.1	881.9	1452.1	2306.6	2443.5	8744.0	11159.1	9489.9	4295.0	1421.9
80°	237.9	249.3	412.6	1055.5	1993.1	2146.1	5144.8	6766.9	4043.8	847.0	317.3
82.5°	102.9	108.6	171.9	629.7	1489.9	1811.9	2723.9	3255.5	1225.5	186.0	159.6
85°	19.8	20.8	70.8	333.3	950.7	1022.6	1765.6	1730.6	550.5	80.3	116.2
87.5°	0.0	0.0	17.0	104.8	279.5	557.1	1077.3	1064.1	187.0	38.8	43.4
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: P383110

CATALOG NUMBER: GLEON-SA4C-735-U-SL3-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	6707.4	6707.4	6707.4	6707.4	6707.4	6707.4	6707.4	6707.4	6707.4	6707.4	6707.4
2.5°	6654.5	6589.4	6452.5	6283.5	6154.1	6011.6	5898.2	5754.7	5692.4	5695.2	5661.2
5°	6505.4	6371.2	6068.2	5685.8	5391.2	5087.2	4825.7	4565.0	4411.2	4361.1	4313.9
7.5°	6292.0	6079.5	5596.1	5007.0	4508.4	4021.2	3597.3	3224.4	2988.3	2873.1	2830.6
10°	6051.1	5752.9	5053.2	4277.1	3565.2	2906.1	2356.6	1878.9	1688.2	1558.9	1525.8
12.5°	5839.7	5435.6	4522.6	3528.3	2683.3	1888.3	1364.3	1066.9	937.6	886.6	878.1
15°	5640.4	5139.2	4011.8	2850.4	1858.2	1162.3	867.7	766.7	736.5	727.9	727.9
17.5°	5452.6	4856.8	3512.3	2182.9	1229.3	814.8	718.5	695.9	686.5	685.4	686.5
20°	5256.2	4574.6	3021.4	1599.5	858.2	690.2	663.7	651.4	648.6	648.6	648.6
22.5°	5068.3	4292.2	2543.6	1142.4	688.3	629.7	616.5	608.0	605.2	604.3	602.3
25°	4887.9	4024.1	2077.2	807.3	604.3	576.9	565.5	554.3	545.7	541.0	538.2
27.5°	4739.7	3785.2	1642.9	647.7	545.7	522.1	508.0	490.9	470.2	460.7	457.0
30°	4621.7	3567.1	1266.2	546.6	490.9	467.4	445.7	416.4	386.1	370.1	369.2
32.5°	4529.2	3352.7	961.2	483.4	441.8	412.6	381.5	344.6	309.6	291.8	290.8
35°	4483.8	3163.9	734.5	437.2	398.4	361.6	322.9	282.4	248.4	231.3	229.4
37.5°	4514.1	3004.3	573.1	398.4	361.6	319.1	273.8	231.3	201.1	186.0	185.1
40°	4624.6	2902.4	465.5	365.4	330.4	278.5	229.4	189.8	164.3	152.0	151.1
42.5°	4859.6	2864.6	397.5	338.1	300.2	240.8	190.7	156.7	133.1	124.6	122.8
45°	5252.4	2920.3	351.2	311.6	269.1	204.8	157.7	128.4	107.6	101.0	100.0
47.5°	5775.5	3066.7	318.2	286.1	240.8	172.8	131.3	103.9	87.8	81.2	80.3
50°	6449.7	3298.9	290.8	260.6	214.3	146.3	108.6	82.2	68.0	63.3	63.3
52.5°	7183.3	3575.6	266.2	237.0	187.9	121.8	87.8	63.3	53.8	48.2	48.2
55°	7789.4	3817.3	239.8	219.0	155.8	101.0	67.1	48.2	39.7	36.8	36.8
57.5°	8394.6	4075.1	209.6	187.9	124.6	82.2	51.0	35.9	29.3	27.4	27.4
60°	9179.2	4390.4	180.3	153.0	98.2	62.3	37.7	25.5	21.7	20.8	20.8
62.5°	10042.2	4575.5	153.9	122.8	76.5	46.3	27.4	17.0	16.0	16.0	15.1
65°	10570.0	4313.9	129.4	98.2	59.5	34.9	18.0	12.3	14.2	13.2	11.4
67.5°	9896.8	3377.3	105.7	76.5	46.3	26.5	11.4	8.5	15.1	12.3	9.4
70°	8194.5	2364.2	82.2	53.8	36.8	22.6	7.5	5.7	16.0	12.3	7.5
72.5°	6132.4	1582.4	65.1	35.9	27.4	19.8	6.6	2.8	14.2	10.3	6.6
75°	3350.9	637.3	51.9	22.6	17.0	14.2	4.8	1.9	9.4	7.5	4.8
77.5°	881.9	168.1	37.7	15.1	9.4	5.7	2.8	0.9	4.8	3.8	1.9
80°	224.7	65.1	24.6	10.3	6.6	2.8	0.0	0.0	0.9	0.0	0.0
82.5°	119.9	27.4	15.1	7.5	3.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	90.6	18.0	8.5	4.8	0.9	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	34.9	5.7	2.8	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)