

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: P382606

Luminaire Tested: **GLEON-SA0A-735-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382606  
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-SA0A-735-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 615mA 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: 36709.5 lumens  
Efficiency: N/A  
Efficacy: 113.7 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

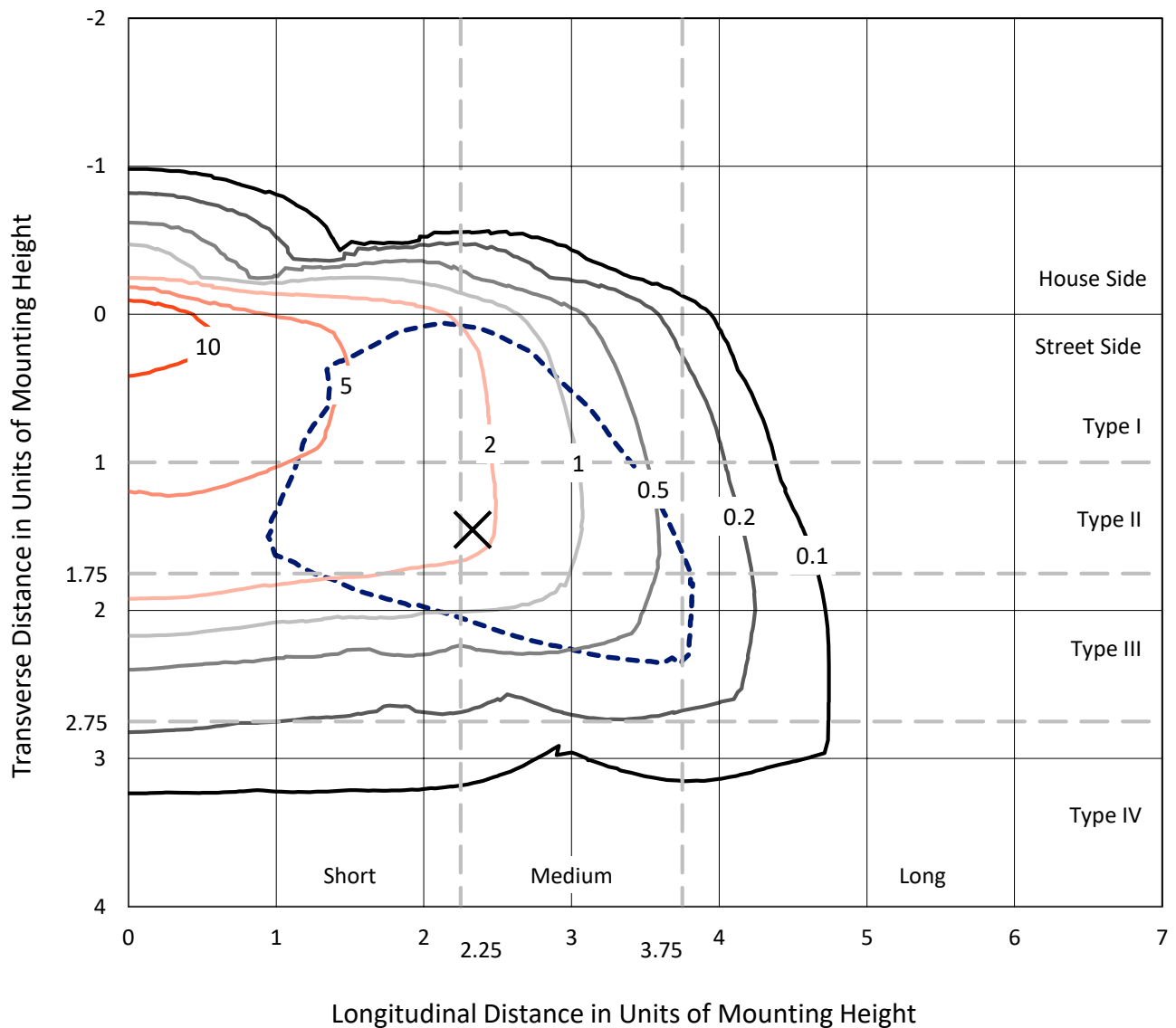
Input Watts (W): 323  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

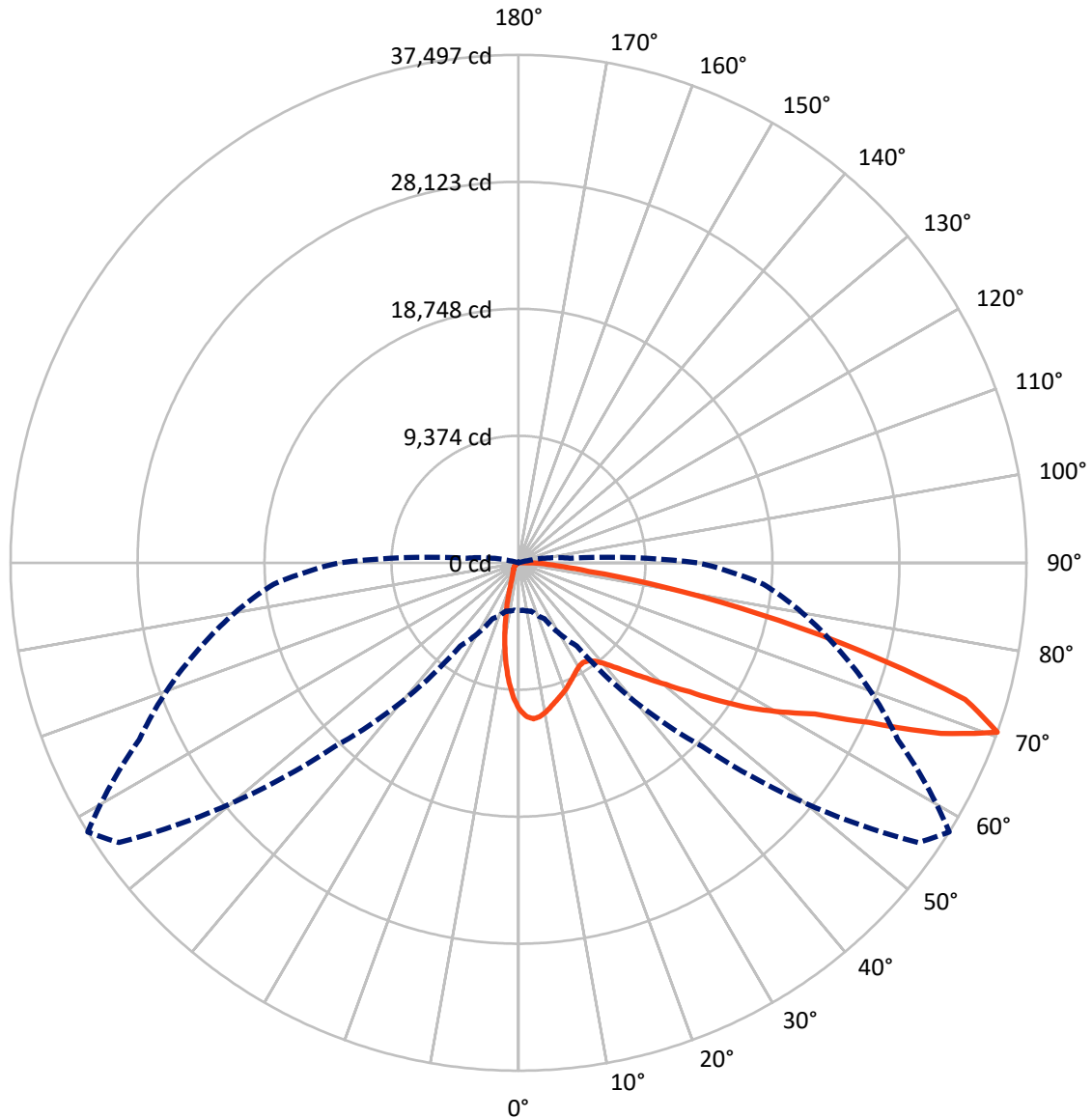
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.6 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



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

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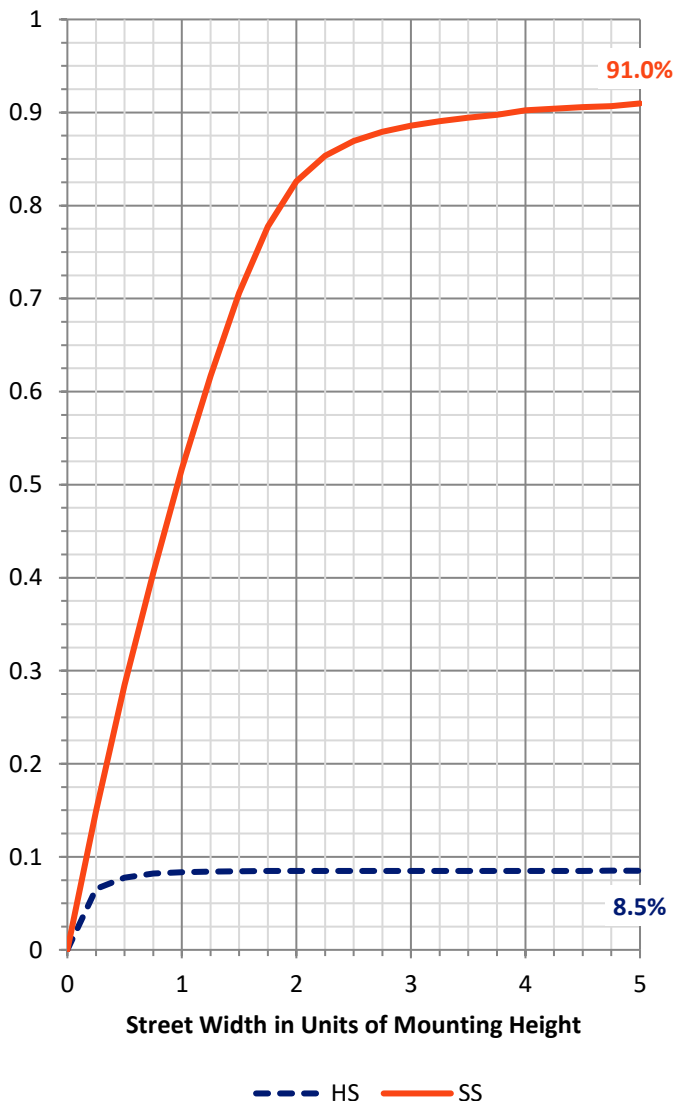
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3141.5	0.0	3141.5
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	33568.0	0.0	33568.0
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	36709.5	0.0	36709.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	886.7	2.4
10°-20°	1861.1	5.1
20°-30°	2446.7	6.7
30°-40°	3240.3	8.8
40°-50°	4843.3	13.2
50°-60°	7758.8	21.1
60°-70°	9779.9	26.6
70°-80°	5275.2	14.4
80°-90°	617.5	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°	36709.5	100.0
0°-180°	36709.5	100.0

**Coefficient of Utilization**

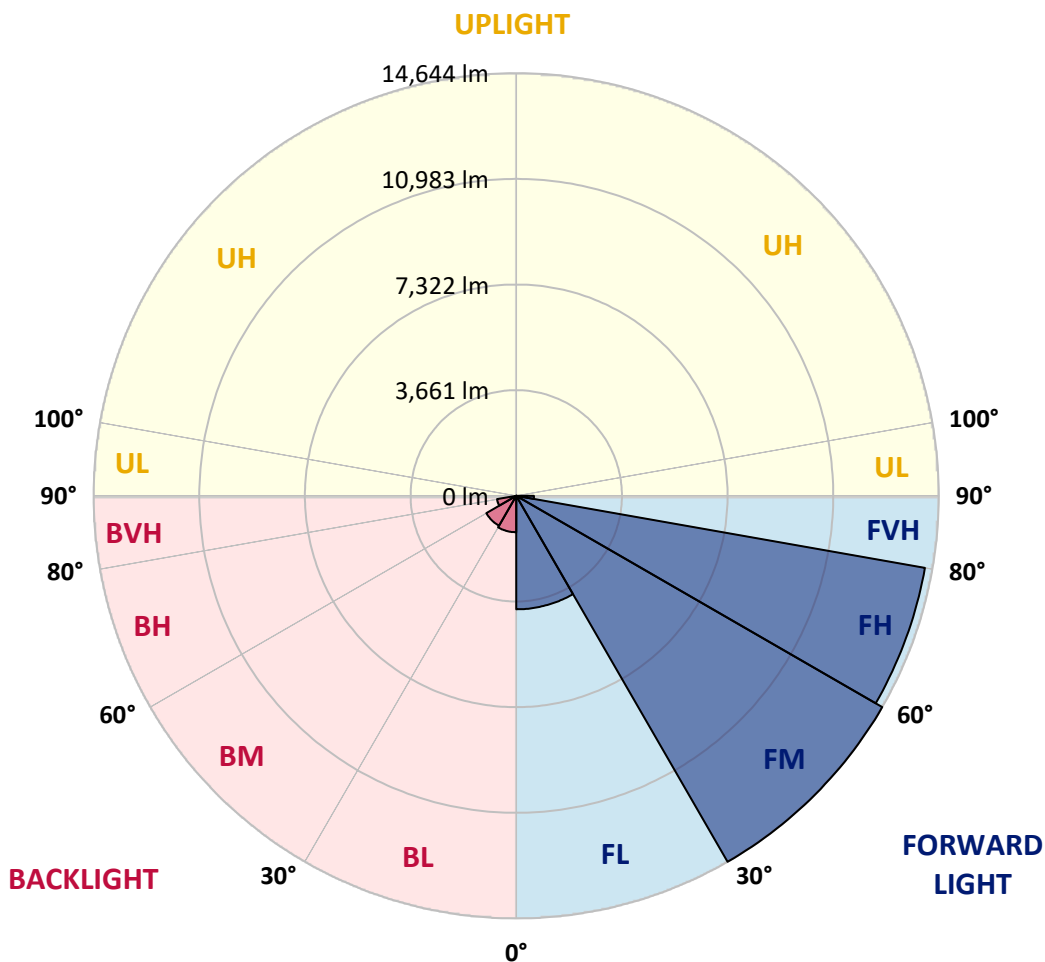


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3932.3	10.7			
FM (30°-60°)	14644.0	39.9			
FH (60°-80°)	14379.5	39.2			G5
FVH (80°-90°)	612.1	1.7			G4/750
BL (0°-30°)	1262.1	3.4	B3/2500		
BM (30°-60°)	1198.5	3.3	B2/2500		
BH (60°-80°)	675.6	1.8	B2/1000		G2/1000
BVH (80°-90°)	5.3	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	10843.8	10843.8	10843.8	10843.8	10843.8	10843.8	10843.8	10843.8	10843.8	10843.8	10843.8
2.5°	11742.9	11713.8	11703.2	11684.9	11614.6	11546.0	11410.2	11372.0	11286.4	11083.5	10868.3
5°	11752.0	11750.5	11782.6	11774.9	11750.5	11718.5	11620.8	11570.4	11425.3	11135.3	10741.6
7.5°	11185.7	11214.7	11286.4	11344.5	11411.6	11498.7	11510.9	11462.0	11343.0	11030.1	10508.0
10°	10425.6	10471.3	10572.1	10686.6	10862.1	11036.1	11191.8	11185.7	11144.5	10836.1	10227.1
12.5°	9663.9	9717.3	9833.3	10002.8	10251.6	10535.4	10813.3	10851.4	10920.2	10662.1	9967.7
15°	8996.8	9042.6	9157.1	9364.7	9673.0	10054.7	10462.2	10532.4	10709.4	10526.3	9750.9
17.5°	8430.5	8459.5	8543.5	8774.0	9131.1	9593.6	10123.3	10260.7	10524.8	10419.5	9563.2
20°	8035.2	8039.7	8094.7	8256.5	8613.6	9131.1	9772.2	9969.1	10329.4	10327.9	9369.3
22.5°	7839.8	7824.5	7835.2	7928.3	8190.8	8690.0	9421.2	9654.7	10153.9	10250.0	9172.4
25°	7803.1	7790.9	7760.4	7772.6	7931.4	8303.8	9067.0	9337.2	9999.7	10202.7	9001.4
27.5°	7917.6	7929.8	7877.9	7823.0	7835.2	8053.5	8752.6	9065.5	9874.5	10202.7	8880.8
30°	8148.2	8154.2	8116.1	8044.3	7948.2	7983.3	8534.3	8847.2	9811.9	10272.9	8804.5
32.5°	8403.0	8436.7	8432.0	8374.1	8236.7	8094.7	8482.4	8767.8	9807.3	10428.6	8796.9
35°	8719.0	8757.2	8821.3	8809.1	8665.6	8432.0	8659.5	8883.9	9897.4	10685.0	8879.3
37.5°	9054.8	9112.9	9250.2	9315.8	9222.7	8958.7	9056.3	9216.6	10138.6	11100.2	9088.4
40°	9379.9	9445.6	9695.9	9953.9	9883.7	9612.0	9657.7	9786.0	10567.6	11697.1	9485.3
42.5°	9699.0	9796.7	10164.6	10588.9	10672.8	10456.1	10480.6	10582.8	11204.1	12518.3	10134.0
45°	10080.6	10190.5	10735.4	11259.0	11483.4	11388.7	11492.5	11559.7	12036.0	13603.6	11008.7
47.5°	10640.8	10767.5	11436.1	12032.9	12426.8	12487.8	12696.9	12741.1	13087.7	14867.5	12148.9
50°	11733.7	11768.8	12373.3	12915.2	13483.0	13849.4	14087.5	14121.1	14360.7	16248.9	13573.1
52.5°	13109.0	13131.9	13473.9	13837.1	14482.9	15230.8	15788.0	15835.3	15885.6	17595.3	14978.9
55°	14475.2	14472.2	14698.1	14911.7	15650.6	16737.4	17946.4	17975.3	17613.5	18872.9	16053.5
57.5°	15328.5	15410.9	15754.3	16029.1	17061.0	18454.6	20132.1	20239.0	19428.4	19819.2	17116.0
60°	15056.8	15096.5	15858.2	16874.8	18817.9	20895.4	22344.0	22371.5	20793.2	20764.1	18459.2
62.5°	12828.2	12849.6	14046.2	16142.0	19707.8	24061.2	25012.2	24565.0	22362.3	22075.3	20066.6
65°	8792.3	8931.2	9931.0	12521.4	18073.0	26047.1	29142.7	28402.4	24754.2	23965.1	21519.7
67.5°	5177.6	5148.7	5643.2	7551.3	13273.9	24728.3	34367.8	33632.0	28016.2	25230.5	21093.9
70°	3536.7	3516.9	3706.2	4571.7	7493.3	19182.7	36011.7	37496.9	30896.6	24378.7	18153.9
72.5°	2524.8	2535.4	2814.8	3552.0	4704.5	11176.6	30968.4	34483.7	29994.5	21252.6	13799.0
75°	1714.2	1743.2	2143.1	2914.0	4124.4	5686.0	21976.1	26213.5	24424.5	15446.0	7931.4
77.5°	922.0	954.0	1425.7	2347.7	3729.1	3950.4	14136.3	18041.0	15342.2	6943.8	2298.8
80°	384.6	403.0	667.1	1706.6	3222.3	3469.5	8317.6	10940.0	6537.7	1369.2	512.9
82.5°	166.4	175.5	277.8	1018.1	2408.7	2929.3	4403.8	5263.2	1981.3	300.7	257.9
85°	32.0	33.5	114.5	538.8	1537.1	1653.1	2854.4	2798.0	889.9	129.8	187.7
87.5°	0.0	0.0	27.5	169.4	451.8	900.6	1741.6	1720.3	302.2	62.6	70.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10843.8	10843.8	10843.8	10843.8	10843.8	10843.8	10843.8	10843.8	10843.8	10843.8	10843.8
2.5°	10758.4	10653.0	10431.7	10158.4	9949.3	9718.8	9535.7	9303.6	9202.9	9207.5	9152.5
5°	10517.2	10300.4	9810.4	9192.2	8715.9	8224.4	7801.6	7380.3	7131.6	7050.6	6974.3
7.5°	10172.2	9828.8	9047.2	8094.7	7288.7	6501.1	5815.7	5212.8	4831.2	4645.0	4576.2
10°	9782.9	9300.6	8169.5	6914.8	5763.9	4698.4	3810.0	3037.6	2729.2	2520.1	2466.7
12.5°	9441.0	8787.7	7311.6	5704.3	4338.1	3052.9	2205.7	1724.9	1515.7	1433.3	1419.6
15°	9118.9	8308.4	6485.8	4608.3	3004.1	1879.0	1402.8	1239.4	1190.6	1176.9	1176.9
17.5°	8815.1	7852.0	5678.3	3529.2	1987.5	1317.3	1161.6	1125.0	1109.8	1108.2	1109.8
20°	8497.7	7395.6	4884.6	2585.8	1387.5	1115.8	1073.0	1053.2	1048.6	1048.6	1048.6
22.5°	8193.9	6939.2	4112.2	1847.0	1112.7	1018.1	996.8	983.1	978.4	976.9	973.8
25°	7902.4	6505.6	3358.1	1305.1	976.9	932.7	914.3	896.1	882.3	874.6	870.1
27.5°	7662.7	6119.5	2656.0	1047.2	882.3	844.1	821.3	793.8	760.1	744.9	738.8
30°	7471.9	5766.8	2047.0	883.9	793.8	755.6	720.5	673.1	624.3	598.3	596.8
32.5°	7322.3	5420.4	1553.9	781.6	714.4	667.1	616.7	557.2	500.7	471.6	470.2
35°	7249.0	5115.1	1187.5	706.8	644.2	584.6	522.0	456.4	401.5	374.0	370.9
37.5°	7297.9	4857.1	926.5	644.2	584.6	515.9	442.7	374.0	325.1	300.7	299.2
40°	7476.5	4692.3	752.5	590.7	534.2	450.3	370.9	306.9	265.6	245.7	244.3
42.5°	7856.6	4631.2	642.7	546.4	485.4	389.2	308.3	253.4	215.2	201.5	198.4
45°	8491.6	4721.3	567.9	503.7	435.0	331.3	254.9	207.6	174.0	163.3	161.8
47.5°	9337.2	4957.9	514.4	462.5	389.2	279.4	212.2	167.9	142.0	131.3	129.8
50°	10427.1	5333.4	470.2	421.3	346.5	236.6	175.5	132.8	109.9	102.3	102.3
52.5°	11613.1	5780.6	430.5	383.1	303.8	196.9	142.0	102.3	87.0	77.9	77.9
55°	12593.1	6171.4	387.7	354.2	251.9	163.3	108.3	77.9	64.1	59.5	59.5
57.5°	13571.5	6588.1	338.9	303.8	201.5	132.8	82.4	58.0	47.3	44.2	44.2
60°	14840.0	7097.9	291.6	247.3	158.7	100.7	61.0	41.2	35.1	33.5	33.5
62.5°	16235.2	7397.1	248.8	198.4	123.6	74.8	44.2	27.5	26.0	26.0	24.4
65°	17088.5	6974.3	209.1	158.7	96.1	56.5	29.0	19.8	22.9	21.3	18.4
67.5°	16000.1	5460.1	170.9	123.6	74.8	42.8	18.4	13.7	24.4	19.8	15.3
70°	13247.9	3822.2	132.8	87.0	59.5	36.6	12.2	9.1	26.0	19.8	12.2
72.5°	9914.2	2558.3	105.4	58.0	44.2	32.0	10.7	4.6	22.9	16.8	10.7
75°	5417.3	1030.4	83.9	36.6	27.5	22.9	7.6	3.1	15.3	12.2	7.6
77.5°	1425.7	271.7	61.0	24.4	15.3	9.1	4.6	1.5	7.6	6.1	3.1
80°	363.3	105.4	39.7	16.8	10.7	4.6	0.0	0.0	1.5	0.0	0.0
82.5°	193.9	44.2	24.4	12.2	6.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	146.5	29.0	13.7	7.6	1.5	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	56.5	9.1	4.6	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)