

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: P317570

Luminaire Tested: **GLEON-SA6C-827-U-T2R**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317570  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA6C-827-U-T2R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 32399 lumens  
Efficiency: N/A  
Efficacy: 97.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4

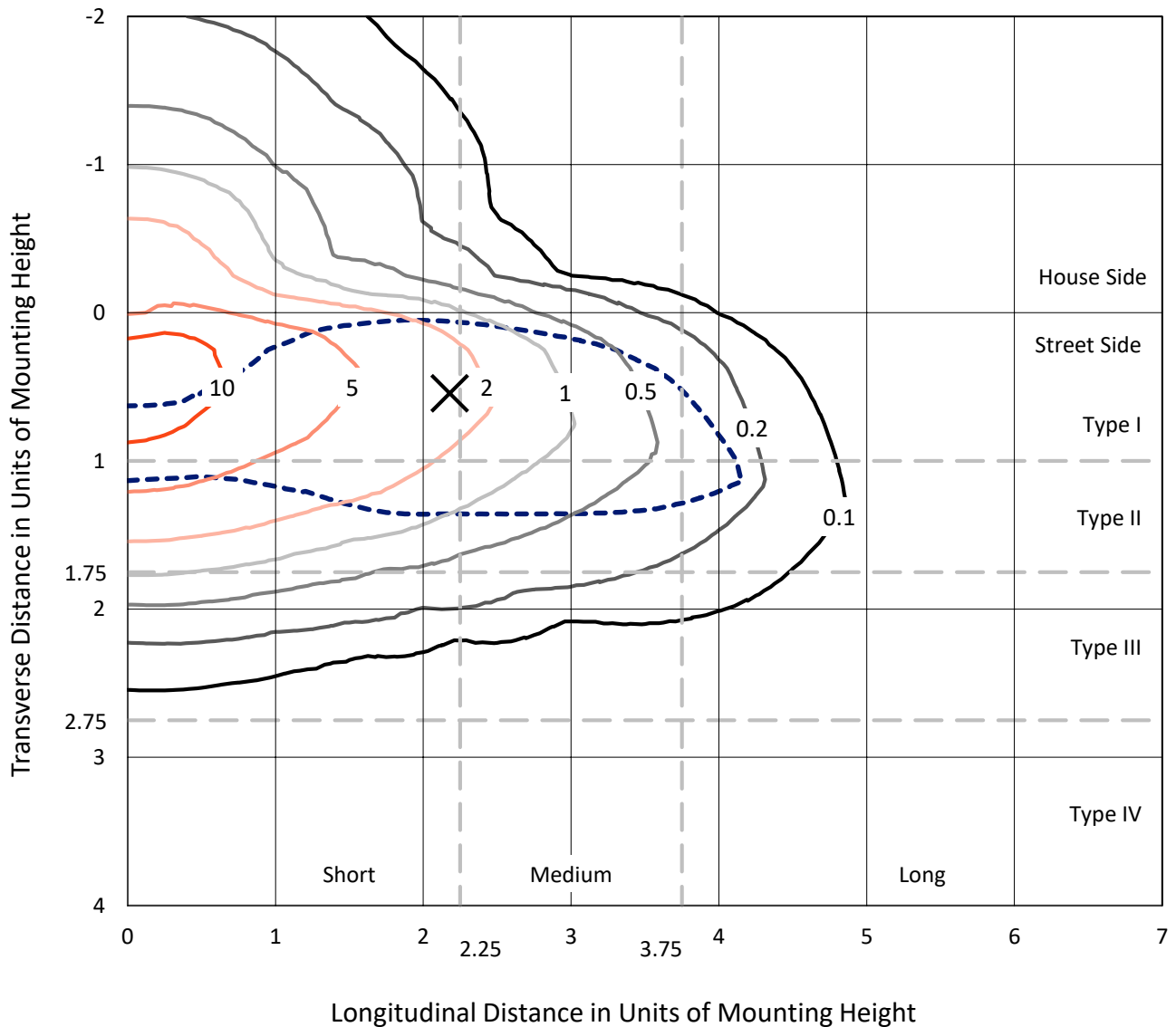
Input Watts (W): 333  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

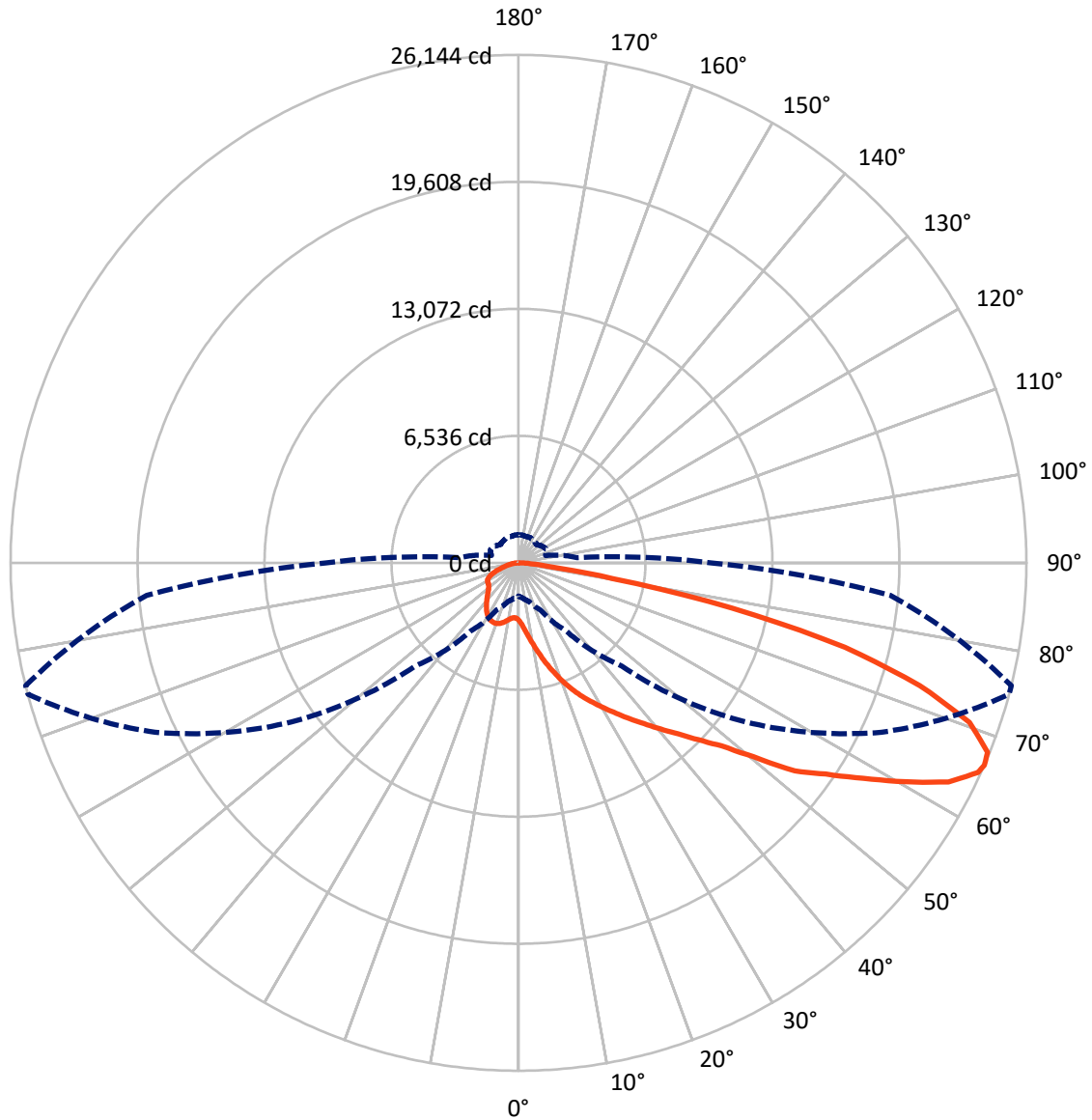
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral      - - - Horizontal Cone Through 66-Deg Vertical

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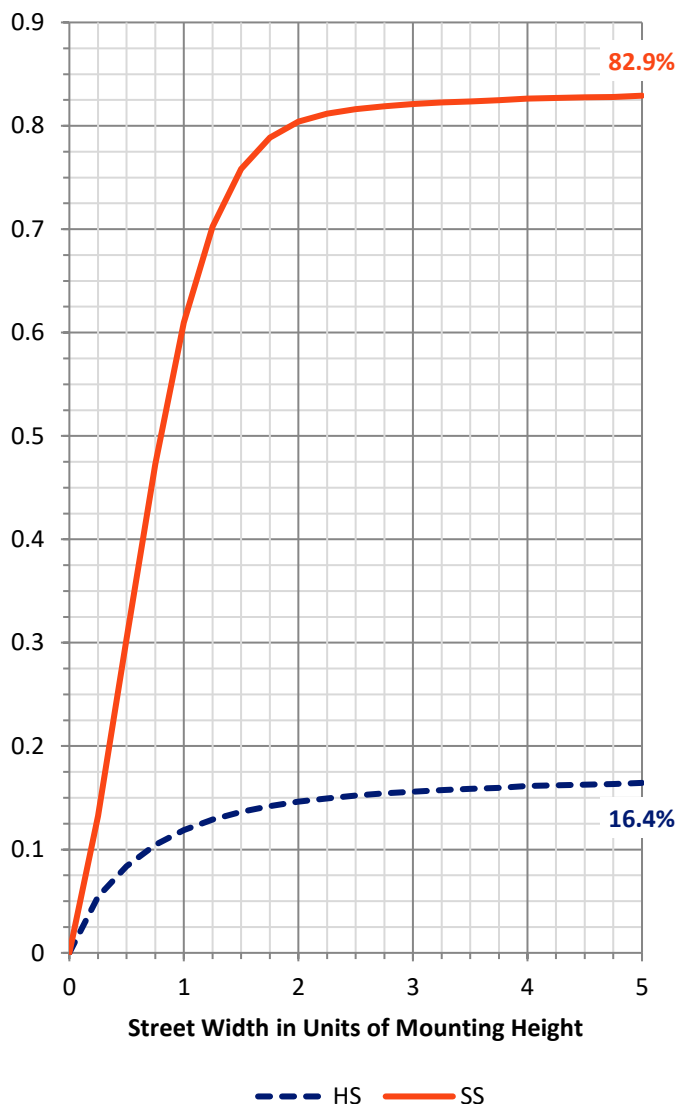
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5451.7	0.0	5451.7
	% Fixture	16.8	0.0	16.8
<b>Street Side</b>	Lumens	26947.4	0.0	26947.4
	% Fixture	83.2	0.0	83.2
<b>Total</b>	Lumens	32399.0	0.0	32399.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.8	1.1
10°-20°	1412.9	4.4
20°-30°	2745.6	8.5
30°-40°	4481.5	13.8
40°-50°	6122.8	18.9
50°-60°	7131.8	22.0
60°-70°	6393.8	19.7
70°-80°	3231.1	10.0
80°-90°	521.8	1.6
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°	32399.0	100.0
0°-180°	32399.0	100.0

**Coefficient of Utilization**



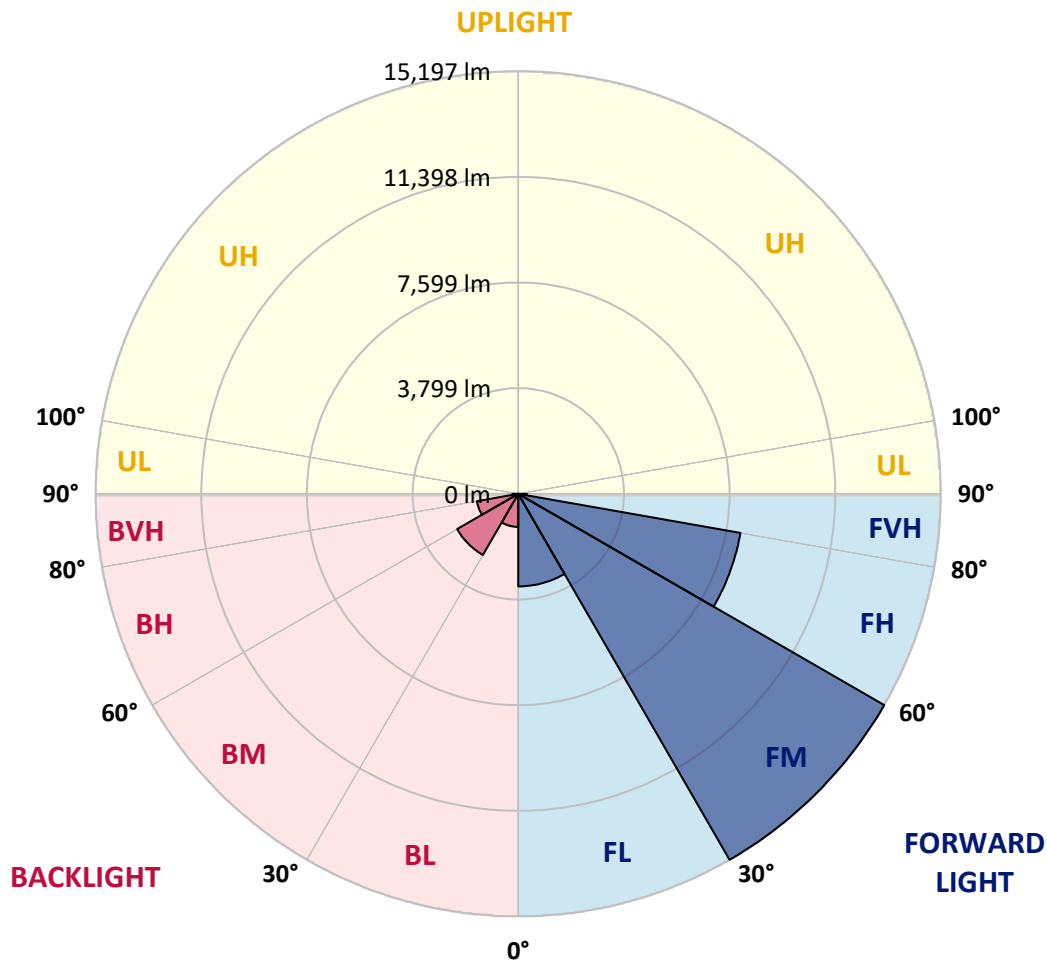
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3327.3	10.3			
FM (30°-60°)	15197.4	46.9			
FH (60°-80°)	8114.5	25.0			G4/12000
FVH (80°-90°)	308.2	1.0			G3/500
BL (0°-30°)	1189.0	3.7	B3/2500		
BM (30°-60°)	2538.6	7.8	B3/5000		
BH (60°-80°)	1510.4	4.7	B3/2500		G3/2500
BVH (80°-90°)	213.6	0.7			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2958.8	2958.8	2958.8	2958.8	2958.8	2958.8	2958.8	2958.8	2958.8	2958.8	2958.8
2.5°	3927.8	3868.4	3862.9	3776.0	3756.2	3590.1	3468.0	3340.4	3195.2	3166.6	3052.3
5°	5045.3	5039.8	4963.9	4822.0	4710.9	4427.1	4146.7	3849.7	3524.1	3471.3	3213.9
7.5°	6050.6	6041.8	5983.5	5830.6	5670.0	5321.4	4921.0	4465.6	3937.7	3859.6	3432.8
10°	6813.9	6810.6	6790.8	6678.7	6542.3	6207.9	5765.7	5144.3	4418.3	4311.6	3706.7
12.5°	7403.5	7410.1	7423.3	7383.7	7318.8	7033.9	6580.8	5863.6	4930.9	4825.3	4011.4
15°	7802.8	7822.6	7890.8	7946.9	7981.0	7806.1	7367.2	6599.5	5505.1	5378.6	4349.0
17.5°	8004.0	8026.0	8143.7	8313.1	8469.3	8451.7	8103.0	7301.2	6056.1	5934.0	4712.0
20°	8177.8	8194.3	8326.3	8529.8	8805.9	8928.0	8732.2	7976.6	6660.0	6514.8	5097.0
22.5°	8681.6	8702.5	8742.1	8857.6	9101.8	9326.1	9231.5	8615.6	7213.2	7077.9	5462.2
25°	9653.9	9679.2	9593.4	9495.5	9541.7	9697.9	9715.5	9198.6	7774.2	7621.3	5854.8
27.5°	10825.3	10861.6	10715.3	10463.4	10243.5	10183.0	10162.1	9675.9	8309.8	8132.7	6243.1
30°	11972.5	12035.2	11844.9	11518.3	11114.6	10830.8	10620.7	10143.4	8837.8	8668.4	6609.4
32.5°	13093.3	13068.0	12792.0	12473.0	12000.0	11644.8	11136.6	10644.9	9431.7	9237.0	6973.4
35°	13861.1	13869.9	13613.6	13235.2	12784.3	12511.5	11827.3	11186.1	10037.8	9858.5	7387.0
37.5°	14514.4	14473.7	14183.3	13830.3	13442.0	13325.4	12635.8	11782.2	10694.4	10498.6	7827.0
40°	14732.2	14684.9	14494.6	14240.5	13929.3	13919.4	13527.8	12457.6	11436.9	11243.3	8323.0
42.5°	14600.2	14539.7	14461.6	14392.3	14296.6	14340.6	14365.9	13249.5	12253.0	12036.3	8897.2
45°	14113.0	14021.7	14076.7	14227.3	14435.2	14683.8	15122.7	14126.2	13167.0	12985.5	9571.4
47.5°	13363.9	13281.4	13453.0	13775.3	14340.6	14969.8	15838.7	15094.1	14258.1	14077.8	10531.6
50°	12310.2	12334.4	12579.7	13165.9	14020.6	15101.8	16720.8	16375.5	15844.2	15675.9	11841.6
52.5°	10581.1	10585.5	11276.3	12238.7	13453.0	15033.6	17210.3	18013.2	18009.9	17806.5	13088.9
55°	8975.3	9073.2	9619.8	10899.0	12533.5	14760.8	17552.4	18809.6	19432.1	19193.4	14251.5
57.5°	7406.8	7464.0	7982.1	9266.7	11221.3	14033.8	17903.2	19765.4	21071.0	20920.3	15696.8
60°	5622.7	5710.7	6246.4	7433.2	9542.8	12743.6	17936.2	20763.0	23029.9	22878.1	17310.4
62.5°	3649.5	3801.3	4302.9	5414.9	7512.4	10888.0	17170.7	21415.3	24886.6	24832.7	18742.5
65°	2097.5	2211.9	2560.6	3418.5	5182.8	8558.4	15350.4	21164.5	26029.4	25998.6	19278.1
66°	1713.7	1785.2	2052.4	2671.7	4276.5	7515.7	14292.2	20635.4	26142.7	26143.8	19216.5
67.5°	1370.5	1402.4	1522.3	1912.7	3155.6	5957.1	12401.5	19468.4	26001.9	26040.4	18819.5
70°	1134.0	1150.5	1187.9	1282.5	1722.5	3592.3	8802.6	16436.0	24588.5	24618.2	17269.7
72.5°	1017.4	1027.3	1041.6	1054.8	1215.4	2007.3	5376.4	13148.3	21558.2	21596.7	14908.2
75°	921.7	927.2	925.0	926.1	1019.6	1279.2	2778.4	9816.7	17431.4	17354.4	11420.4
77.5°	809.5	815.0	804.0	806.2	901.9	983.3	1382.6	6872.2	11763.5	11220.2	6434.5
80°	684.1	688.5	684.1	691.8	785.3	742.4	804.0	3866.2	5201.5	4919.9	2287.8
82.5°	517.0	535.7	548.9	579.7	646.7	528.0	537.9	1505.8	1583.9	1508.0	701.7
85°	226.6	276.1	413.6	443.3	486.2	316.8	353.1	613.8	644.5	624.7	255.2
87.5°	59.4	64.9	204.6	257.4	269.5	143.0	183.7	279.4	294.8	279.4	84.7
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°	2958.8	2958.8	2958.8	2958.8	2958.8	2958.8	2958.8	2958.8	2958.8	2958.8	2958.8
2.5°	2991.8	2937.9	2841.1	2755.3	2690.4	2646.4	2602.4	2580.4	2567.2	2554.0	2556.2
5°	3087.4	2978.6	2812.5	2694.8	2628.8	2587.0	2565.0	2556.2	2550.7	2537.5	2537.5
7.5°	3231.5	3077.5	2848.8	2727.8	2676.1	2644.2	2631.0	2626.6	2620.0	2604.6	2606.8
10°	3413.0	3197.4	2924.7	2807.0	2759.7	2724.5	2705.8	2699.2	2687.1	2669.5	2671.7
12.5°	3626.4	3345.9	3024.8	2901.6	2844.4	2797.1	2766.3	2747.6	2726.7	2703.6	2704.7
15°	3859.6	3507.6	3132.5	2986.3	2908.2	2842.2	2792.7	2760.8	2727.8	2699.2	2698.1
17.5°	4096.1	3663.8	3215.0	3032.5	2926.9	2840.0	2772.9	2723.4	2682.7	2647.5	2644.2
20°	4351.2	3804.6	3261.2	3028.1	2891.7	2788.3	2699.2	2637.6	2592.5	2557.3	2551.8
22.5°	4610.8	3936.6	3268.9	2983.0	2813.6	2687.1	2593.6	2525.4	2479.2	2442.9	2429.7
25°	4848.4	4038.9	3237.0	2896.1	2704.7	2568.3	2477.0	2407.7	2370.3	2327.4	2314.2
27.5°	5065.1	4110.4	3173.2	2785.0	2582.6	2448.4	2362.6	2303.2	2262.5	2229.5	2218.5
30°	5259.8	4148.9	3068.8	2653.0	2457.2	2335.1	2262.5	2221.8	2186.6	2144.8	2137.1
32.5°	5444.6	4148.9	2934.6	2508.9	2332.9	2235.0	2192.1	2166.8	2127.2	2086.5	2075.5
35°	5629.3	4123.6	2776.2	2358.2	2218.5	2163.5	2161.3	2131.6	2071.1	2016.1	2001.8
37.5°	5824.0	4071.9	2598.0	2217.4	2125.0	2131.6	2150.3	2084.3	1998.5	1920.4	1899.5
40°	6044.0	4000.4	2413.2	2095.3	2046.9	2117.3	2120.6	2016.1	1848.9	1777.5	1758.8
42.5°	6302.5	3928.9	2241.6	1987.5	1985.3	2074.4	2064.5	1868.7	1768.7	1732.4	1722.5
45°	6642.4	3888.2	2078.8	1885.2	1936.9	2005.1	1968.8	1787.4	1745.6	1724.7	1715.9
47.5°	7178.0	3909.1	1929.2	1803.9	1888.5	1935.8	1790.7	1754.4	1724.7	1699.4	1690.6
50°	7849.0	3897.0	1808.3	1747.8	1833.6	1863.2	1710.4	1711.5	1696.1	1667.5	1654.3
52.5°	8353.8	3802.4	1730.2	1715.9	1785.2	1734.6	1659.8	1669.7	1662.0	1620.2	1605.9
55°	8841.1	3721.0	1690.6	1703.8	1750.0	1574.0	1600.4	1624.6	1616.9	1576.2	1569.6
57.5°	9447.1	3705.6	1666.4	1707.1	1720.3	1493.7	1543.2	1575.1	1569.6	1552.0	1548.7
60°	10189.6	3710.0	1644.4	1712.6	1687.3	1434.3	1489.3	1530.0	1533.3	1530.0	1527.8
62.5°	10597.6	3590.1	1589.4	1697.2	1629.0	1382.6	1433.2	1492.6	1493.7	1500.3	1499.2
65°	10251.2	3231.5	1487.1	1643.3	1531.1	1339.7	1384.8	1449.7	1433.2	1462.9	1462.9
66°	9914.6	3024.8	1436.5	1608.1	1489.3	1323.2	1369.4	1427.7	1406.8	1447.5	1447.5
67.5°	9227.1	2676.1	1345.2	1533.3	1429.9	1300.1	1351.8	1391.4	1362.8	1423.3	1418.9
70°	7971.1	2070.0	1161.5	1363.9	1332.0	1266.0	1327.6	1318.8	1277.0	1369.4	1351.8
72.5°	6720.5	1572.9	932.7	1141.7	1183.5	1223.1	1293.5	1226.4	1173.6	1238.5	1200.0
75°	5214.7	1182.4	736.9	887.6	999.8	1156.0	1252.8	1119.7	1043.8	1037.2	1016.3
77.5°	2819.1	811.7	584.1	677.5	794.1	1072.4	1225.3	1005.3	890.9	864.5	848.0
80°	1116.4	528.0	424.6	513.7	555.5	951.4	1159.3	872.2	734.7	708.3	683.0
82.5°	460.9	312.4	273.9	344.3	361.9	813.9	1040.5	714.9	567.6	785.3	833.7
85°	198.0	171.6	162.8	178.2	204.6	570.9	828.2	545.6	612.7	546.7	434.5
87.5°	59.4	72.6	69.3	68.2	74.8	136.4	441.1	303.6	449.9	170.5	127.6
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)