

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: P321100

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P321100  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-29)  
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-AFL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 34999 lumens  
Efficiency: N/A  
Efficacy: 91.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

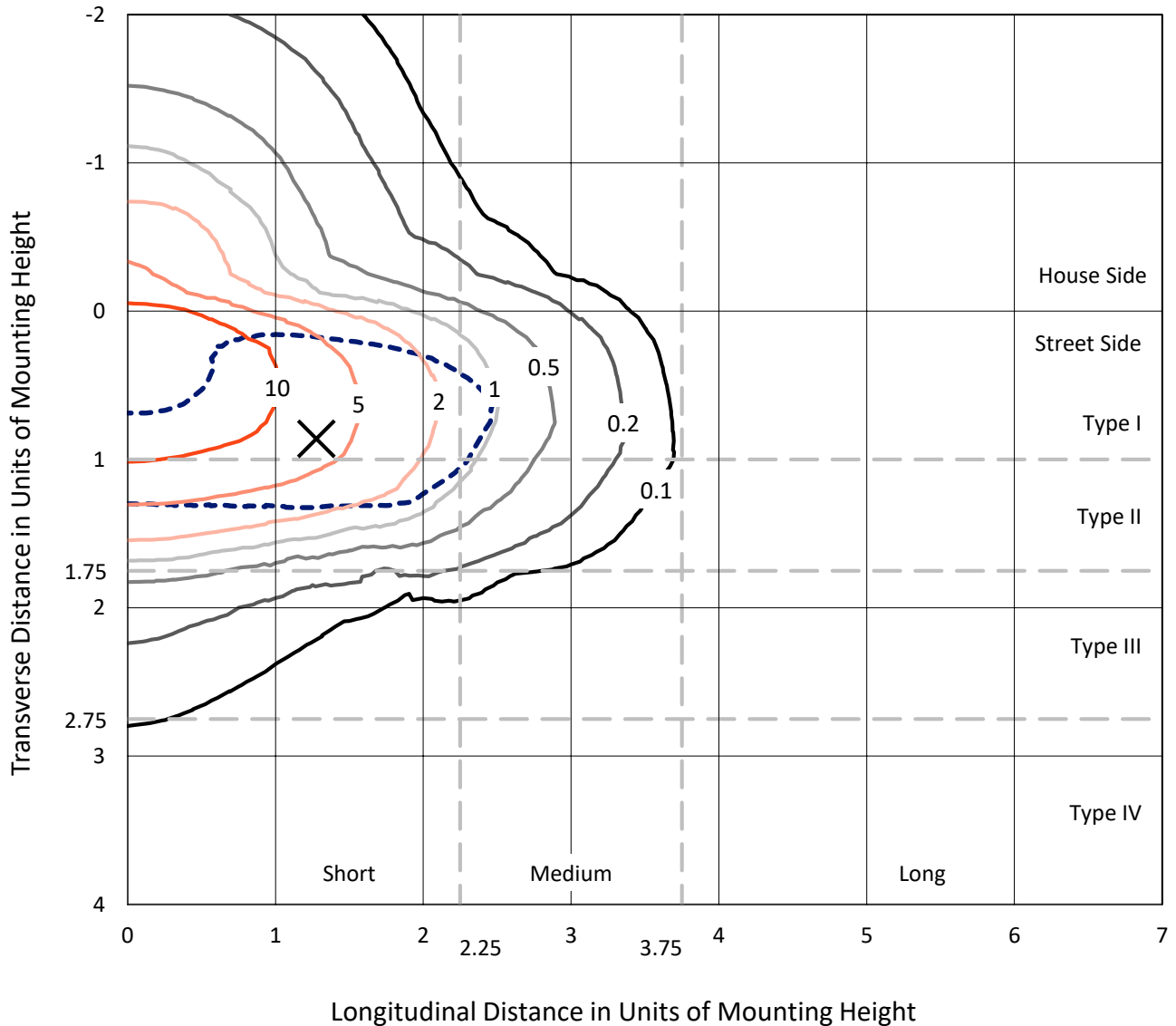
Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

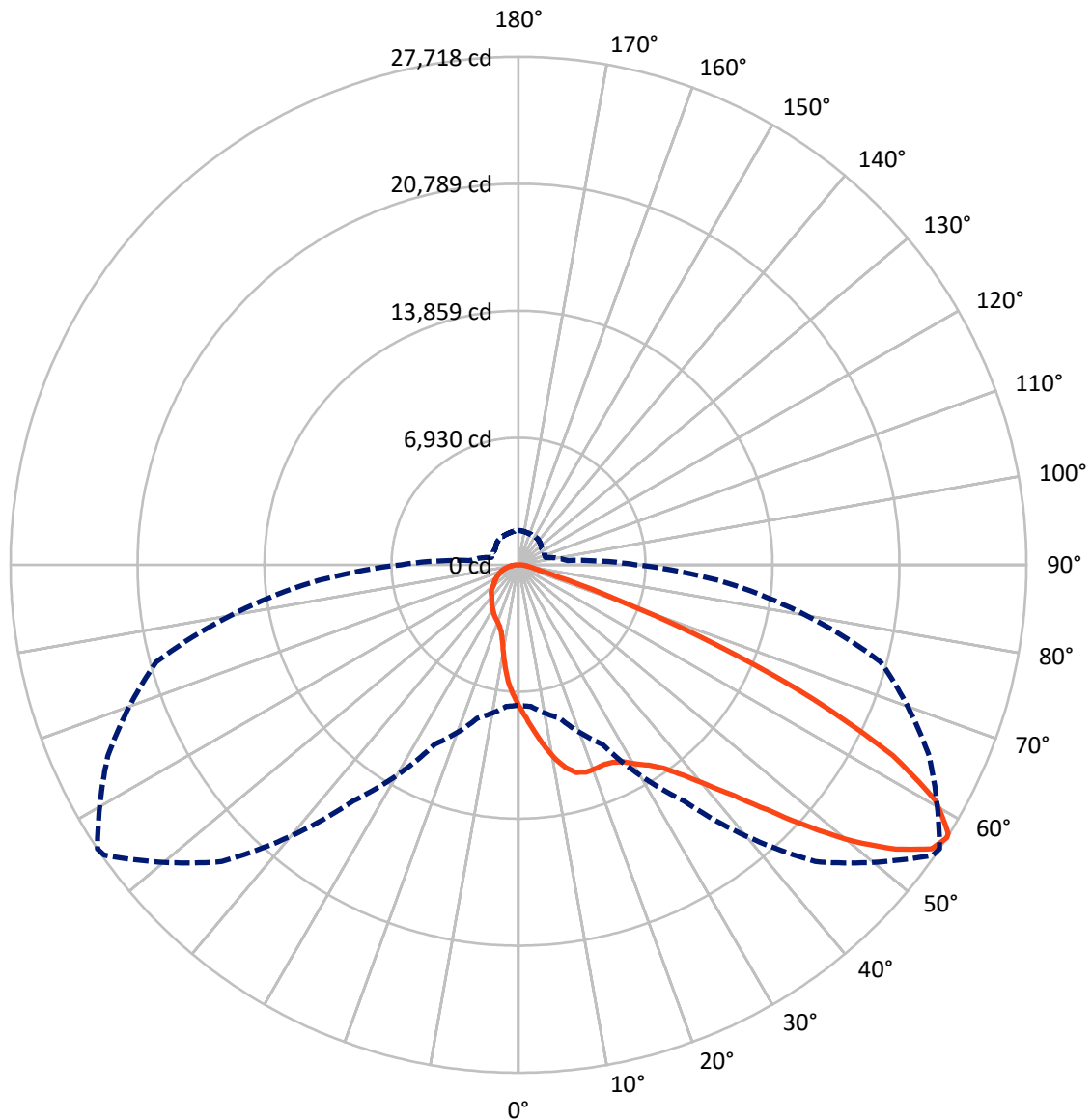
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral      - - - Horizontal Cone Through 57-Deg Vertical

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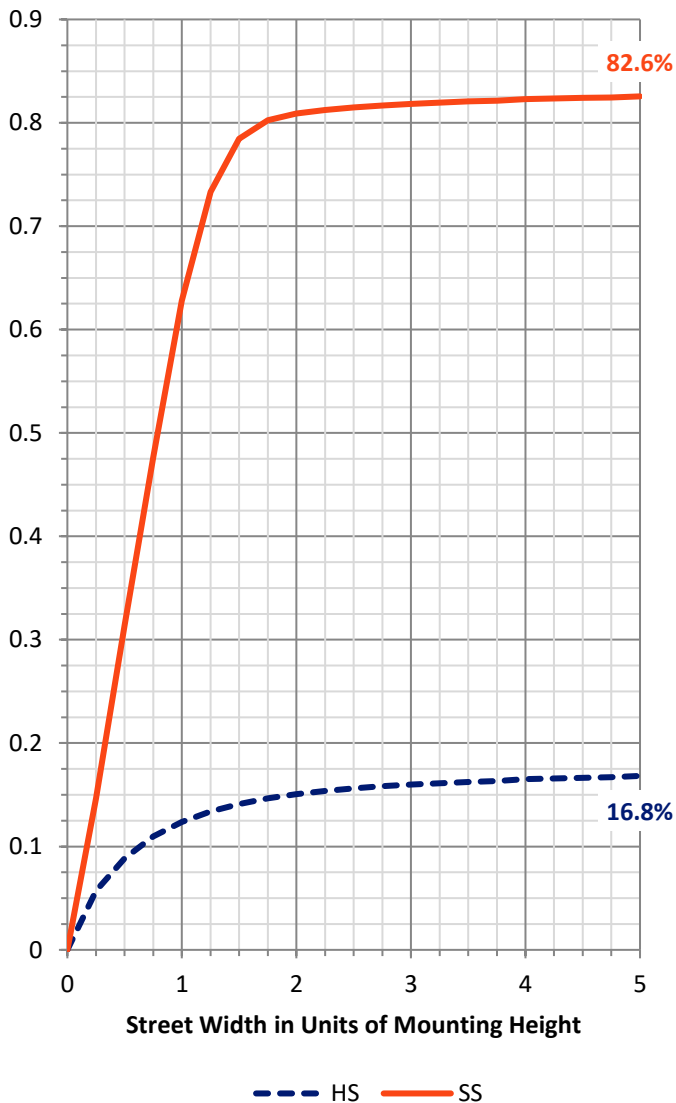
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	6033.1	0.0	6033.1
	% Fixture	17.2	0.0	17.2
<b>Street Side</b>	Lumens	28965.9	0.0	28965.9
	% Fixture	82.8	0.0	82.8
<b>Total</b>	Lumens	34999.0	0.0	34999.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	741.5	2.1
10°-20°	2096.5	6.0
20°-30°	3414.8	9.8
30°-40°	5104.8	14.6
40°-50°	7742.9	22.1
50°-60°	8678.4	24.8
60°-70°	5125.8	14.6
70°-80°	1679.4	4.8
80°-90°	414.9	1.2
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°	34999.0	100.0
0°-180°	34999.0	100.0

**Coefficient of Utilization**

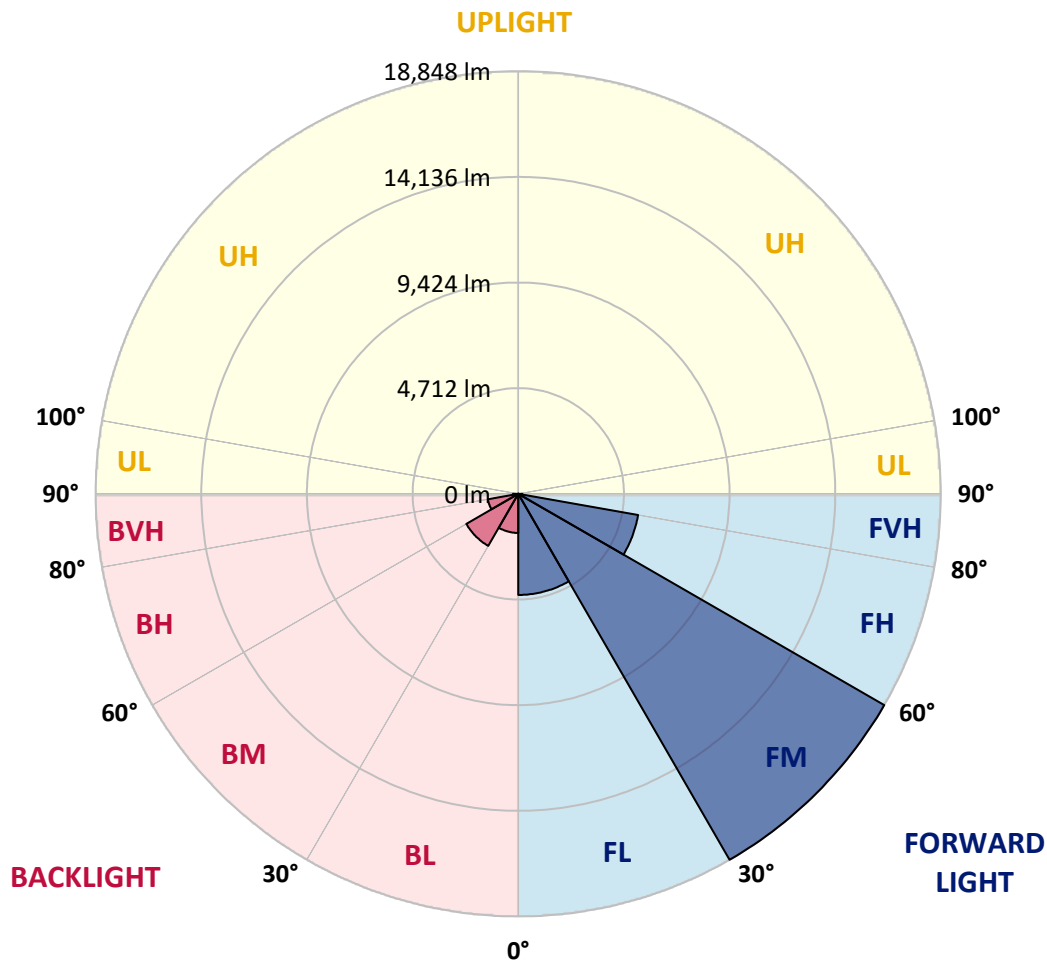


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4508.4	12.9			
FM (30°-60°)	18848.1	53.9			
FH (60°-80°)	5426.7	15.5			G3/7500
FVH (80°-90°)	182.7	0.5			G2/225
BL (0°-30°)	1744.5	5.0	B3/2500		
BM (30°-60°)	2677.9	7.7	B3/5000		
BH (60°-80°)	1378.5	3.9	B3/2500		G3/2500
BVH (80°-90°)	232.2	0.7			G3/500
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G3**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7762.8	7762.8	7762.8	7762.8	7762.8	7762.8	7762.8	7762.8	7762.8	7762.8	7762.8
2.5°	8913.9	8995.7	8959.6	8834.5	8738.3	8602.4	8450.8	8405.1	8245.1	8065.9	7850.6
5°	10324.8	10283.9	10224.9	10030.1	9824.4	9585.0	9205.0	9144.8	8788.8	8383.4	7955.3
7.5°	11128.2	11124.6	11089.7	10975.5	10787.8	10475.1	10016.8	9945.9	9408.2	8756.3	8092.4
10°	11011.5	11003.1	11060.9	11179.9	11236.5	11171.5	10785.4	10714.5	10054.1	9168.9	8251.1
12.5°	10348.8	10353.6	10446.2	10696.4	11036.8	11445.8	11383.2	11348.3	10724.1	9635.6	8443.6
15°	9832.8	9843.6	9917.0	10134.7	10536.4	11278.6	11746.5	11758.5	11372.4	10150.3	8668.5
17.5°	9606.7	9629.5	9663.2	9816.0	10184.0	10945.4	11833.1	11898.0	11940.1	10684.4	8885.0
20°	9678.9	9700.5	9710.1	9807.6	10109.5	10743.3	11772.9	11889.6	12375.5	11187.2	9101.5
22.5°	10002.4	10015.6	10021.7	10046.9	10281.5	10801.1	11733.2	11855.9	12690.6	11638.2	9265.1
25°	10538.9	10529.2	10490.7	10458.3	10615.8	11029.6	11824.6	11941.3	12946.8	12047.1	9372.1
27.5°	11181.1	11169.1	11094.5	11005.5	11095.7	11385.6	12088.0	12180.7	13176.6	12429.6	9426.3
30°	11952.1	11920.9	11780.1	11674.3	11709.2	11919.7	12522.3	12606.4	13531.4	12863.8	9479.2
32.5°	12843.4	12809.7	12606.4	12430.8	12430.8	12606.4	12969.7	13039.5	13832.1	13354.6	9564.6
35°	13959.6	13917.5	13652.9	13358.2	13275.2	13364.2	13579.5	13628.8	14373.3	13972.8	9719.8
37.5°	15275.4	15218.9	14876.1	14481.6	14300.0	14295.2	14450.3	14551.4	15238.2	14784.7	9983.2
40°	16594.9	16555.2	16255.7	15945.4	15589.4	15475.1	15714.5	15745.7	16368.8	15792.6	10319.9
42.5°	17614.9	17607.7	17552.3	17593.2	17228.8	16997.8	17185.5	17210.7	17749.6	16883.6	10678.4
45°	18153.7	18165.7	18434.0	19028.1	19162.9	18994.5	19087.1	19094.3	19327.6	17984.1	11006.7
47.5°	17721.9	17784.5	18462.8	19791.9	20894.9	21454.2	21300.2	21389.2	20857.6	18929.5	11264.1
50°	16039.2	16116.2	17270.9	19451.5	21703.2	23834.5	23753.9	23733.5	22091.7	19622.3	11403.7
52.5°	13954.8	14014.9	14967.5	17682.2	21110.2	25150.3	25890.1	25784.2	23188.6	20140.7	11430.1
55°	10780.6	10874.4	11787.3	14150.8	18711.8	24647.6	27460.9	27365.9	24188.1	20412.6	11398.8
57°	7664.2	7762.8	8669.7	10799.9	15740.9	22907.1	27617.3	27718.3	24728.2	20458.3	11433.7
57.5°	6839.1	6940.1	7838.6	9907.4	14814.8	22278.1	27482.6	27651.0	24825.6	20451.0	11453.0
60°	3443.6	3482.1	4054.6	5530.4	9364.9	18010.6	25725.3	26159.5	24913.4	20097.4	11536.0
62.5°	2141.0	2113.3	2095.3	2547.5	4556.2	11943.7	22098.9	22934.8	23233.1	19241.0	11335.1
65°	1882.4	1830.6	1632.2	1596.1	2012.3	5801.1	16641.8	17682.2	19642.8	17891.5	10856.4
67.5°	1768.1	1717.6	1493.9	1359.2	1360.4	2299.7	10332.0	11503.5	15301.9	15609.8	9727.0
70°	1650.2	1604.5	1395.2	1236.5	1158.3	1273.8	4753.4	5642.3	9974.7	12269.7	8129.7
72.5°	1498.7	1467.4	1268.9	1105.4	1022.4	953.8	1819.8	2149.4	5774.6	8240.3	5645.9
75°	1339.9	1311.0	1141.4	985.1	884.1	750.5	1024.8	1104.2	2933.6	4215.8	2779.6
77.5°	1165.5	1148.7	1015.2	870.8	790.2	621.8	725.3	763.8	1258.1	1807.8	1394.0
80°	927.4	959.8	887.7	775.8	701.2	498.0	513.6	538.9	732.5	882.8	791.4
82.5°	603.8	660.3	695.2	630.3	577.3	392.1	369.3	380.1	477.5	538.9	344.0
85°	251.4	282.7	457.1	412.6	383.7	286.3	247.8	252.6	295.9	306.7	140.7
87.5°	111.9	119.1	200.9	188.8	162.4	98.6	105.8	115.5	157.6	149.1	54.1
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°	7762.8	7762.8	7762.8	7762.8	7762.8	7762.8	7762.8	7762.8	7762.8	7762.8	7762.8
2.5°	7770.0	7669.0	7495.8	7304.5	7148.2	7023.1	6896.8	6810.2	6709.2	6655.0	6627.4
5°	7776.0	7577.6	7213.1	6839.1	6504.7	6199.2	5908.1	5684.4	5475.1	5362.0	5330.8
7.5°	7801.3	7503.0	6913.6	6297.8	5703.6	5161.2	4742.6	4480.4	4291.6	4207.4	4183.3
10°	7821.7	7415.2	6543.2	5631.5	4823.2	4273.5	3948.8	3802.0	3737.1	3726.2	3715.4
12.5°	7869.9	7325.0	6153.5	4936.3	4138.8	3758.7	3645.7	3636.0	3654.1	3680.5	3680.5
15°	7945.6	7236.0	5708.4	4339.7	3703.4	3569.9	3592.7	3645.7	3695.0	3735.9	3741.9
17.5°	8001.0	7126.5	5229.7	3862.2	3471.3	3507.3	3589.1	3663.7	3714.2	3753.9	3757.5
20°	8040.7	6956.9	4718.5	3497.7	3337.7	3449.6	3551.8	3618.0	3652.9	3692.6	3698.6
22.5°	8020.2	6729.6	4265.1	3236.7	3229.5	3365.4	3462.8	3542.2	3515.8	3477.3	3502.5
25°	7921.6	6416.9	3798.4	3041.9	3115.2	3252.3	3372.6	3319.7	3230.7	3213.9	3223.5
27.5°	7746.0	6017.6	3366.6	2861.4	2982.9	3147.7	3140.5	3087.6	3056.3	3034.6	3047.9
30°	7557.1	5584.6	2988.9	2703.9	2836.2	2972.1	2944.4	2943.2	2912.0	2877.1	2893.9
32.5°	7370.7	5149.1	2689.4	2574.0	2725.5	2743.6	2803.7	2821.7	2760.4	2687.0	2682.2
35°	7208.3	4737.8	2462.1	2456.1	2592.0	2594.4	2682.2	2657.0	2504.2	2428.4	2428.4
37.5°	7086.8	4327.6	2288.9	2350.3	2416.4	2479.0	2523.5	2418.8	2393.6	2351.5	2350.3
40°	7033.9	3966.8	2180.7	2269.7	2292.5	2371.9	2257.6	2298.5	2310.6	2288.9	2288.9
42.5°	6978.6	3652.9	2086.8	2208.3	2204.7	2193.9	2136.2	2189.1	2237.2	2238.4	2234.8
45°	6923.3	3382.2	2003.8	2077.2	2127.7	2011.1	2021.9	2078.4	2145.8	2169.8	2169.8
47.5°	6861.9	3168.2	1928.1	1938.9	2017.1	1938.9	1930.5	1973.8	2053.2	2091.7	2100.1
50°	6727.2	2975.7	1841.5	1817.4	1839.1	1865.5	1872.7	1893.2	1981.0	2042.3	2056.8
52.5°	6540.8	2803.7	1730.8	1705.6	1705.6	1805.4	1839.1	1845.1	1919.7	1993.0	2007.5
55°	6385.6	2694.3	1616.6	1611.7	1606.9	1741.6	1799.4	1809.0	1860.7	1918.5	1925.7
57°	6396.4	2685.8	1528.7	1533.6	1532.4	1676.7	1762.1	1782.5	1809.0	1858.3	1866.7
57.5°	6402.5	2691.8	1509.5	1511.9	1510.7	1658.6	1751.3	1774.1	1794.6	1846.3	1854.7
60°	6492.7	2707.5	1431.3	1404.9	1410.9	1562.4	1689.9	1718.8	1732.0	1800.6	1811.4
62.5°	6359.2	2637.7	1368.8	1305.0	1305.0	1461.4	1604.5	1650.2	1670.7	1763.3	1781.3
65°	5971.9	2441.7	1295.4	1192.0	1204.0	1360.4	1502.3	1576.9	1608.1	1723.6	1742.8
67.5°	5374.1	2214.3	1217.2	1090.9	1103.0	1254.5	1396.4	1477.0	1526.3	1680.3	1695.9
70°	4595.9	1936.5	1111.4	983.9	998.3	1139.0	1271.3	1362.8	1436.1	1639.4	1644.2
72.5°	3388.3	1587.7	963.4	866.0	881.6	1004.3	1145.1	1250.9	1349.5	1537.2	1534.8
75°	2014.7	1241.3	799.9	746.9	757.8	872.0	1030.8	1159.5	1307.4	1497.5	1520.3
77.5°	1222.0	934.6	651.9	625.5	638.7	755.4	949.0	1086.1	1289.4	1412.1	1404.9
80°	738.5	667.5	520.8	504.0	517.2	645.9	878.0	1030.8	1127.0	1206.4	1206.4
82.5°	386.1	407.7	382.5	369.3	387.3	524.4	798.7	899.7	995.9	855.2	798.7
85°	157.6	212.9	232.1	230.9	241.8	363.2	689.2	769.8	642.3	609.8	624.2
87.5°	52.9	90.2	113.1	97.4	102.2	228.5	477.5	371.7	441.4	307.9	292.3
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)