

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: P269227

Luminaire Tested: **GLEON-AF-04-LED-E1-SL2-7027-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P269227
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-04-LED-E1-SL2-7027-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11385.2 lumens
Efficiency: N/A
Efficacy: 88.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 129
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: 25 FT

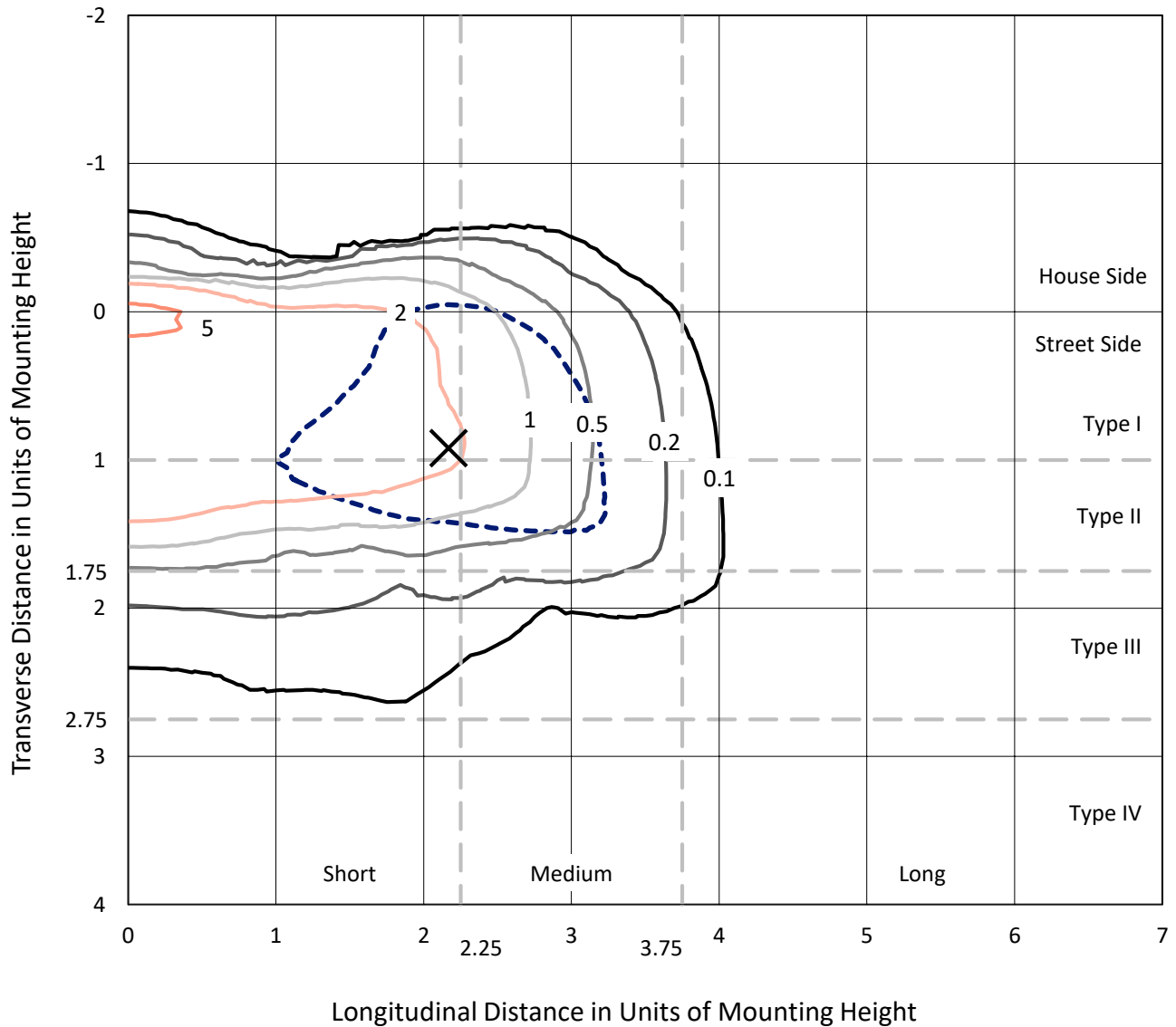


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

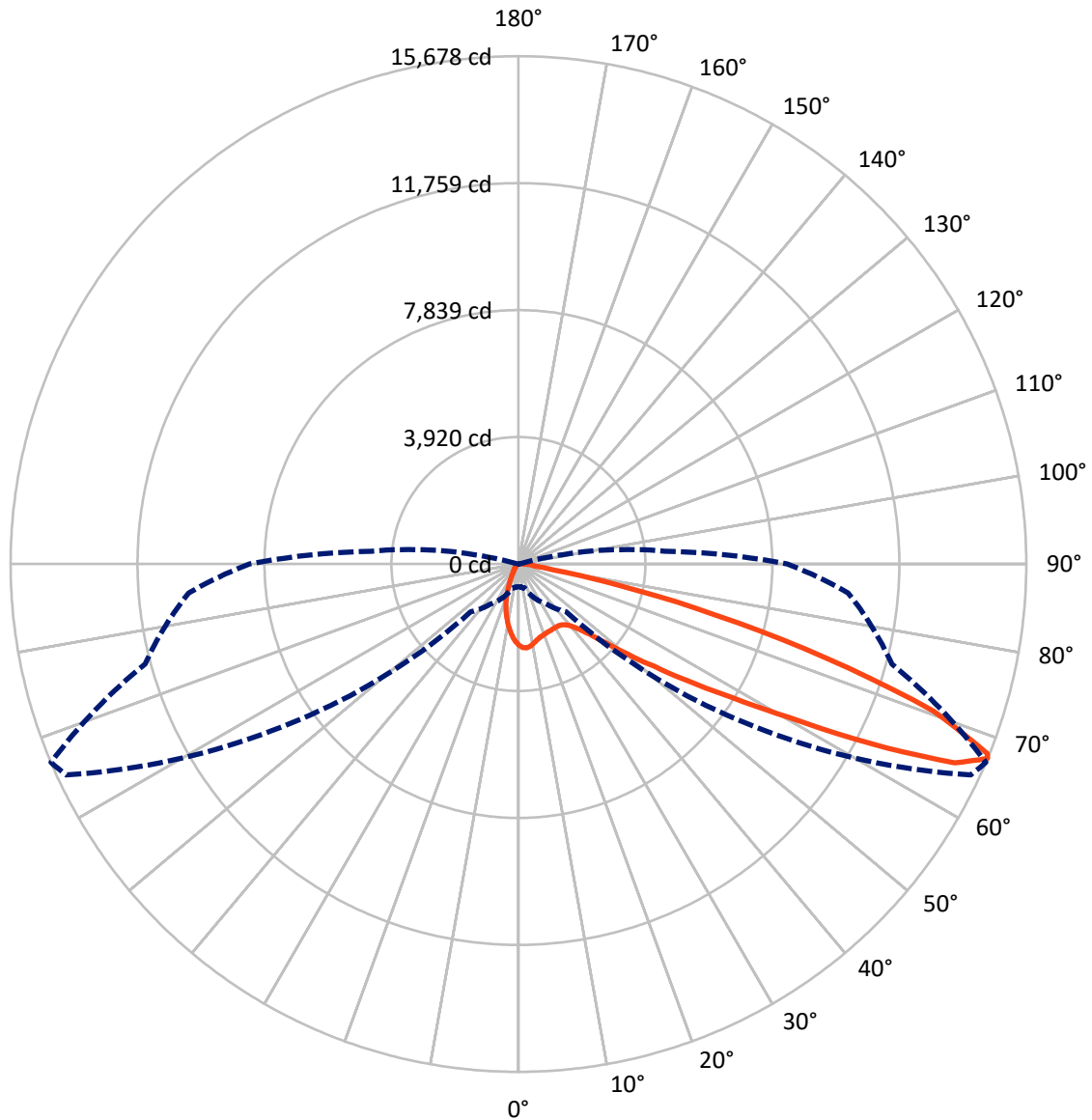


Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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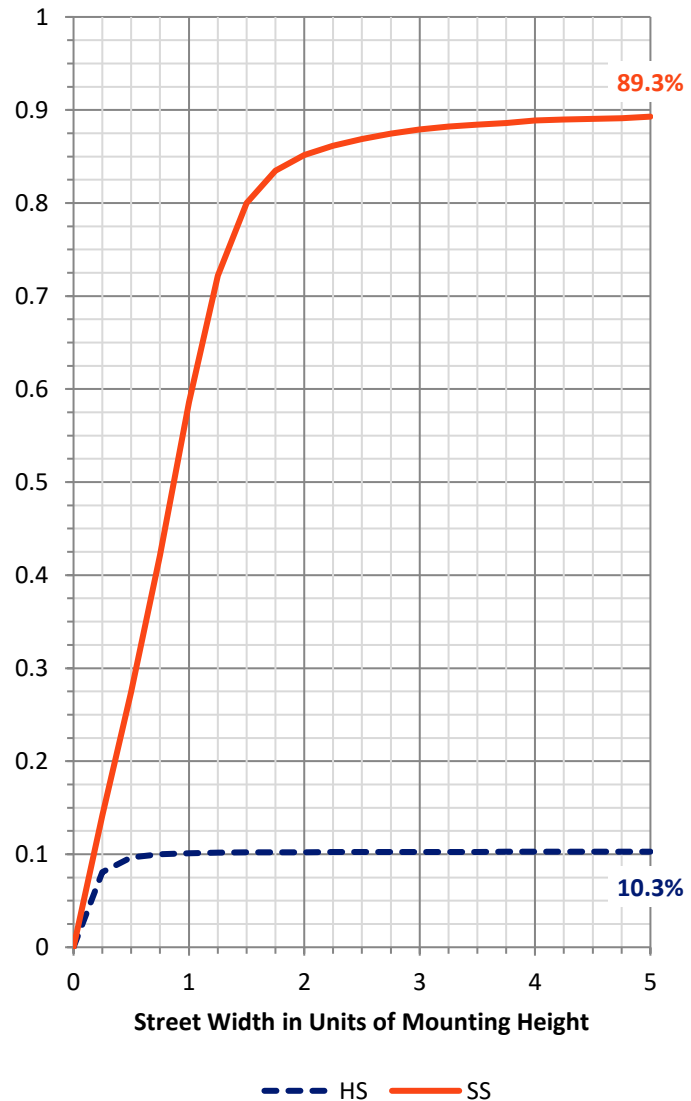
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1182.1	0.0	1182.1
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	10203.1	0.0	10203.1
	% Fixture	89.6	0.0	89.6
Total	Lumens	11385.2	0.0	11385.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	204.3	1.8
10°-20°	434.8	3.8
20°-30°	632.2	5.6
30°-40°	986.3	8.7
40°-50°	1747.2	15.3
50°-60°	2764.7	24.3
60°-70°	3166.6	27.8
70°-80°	1313.5	11.5
80°-90°	135.7	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°	11385.2	100.0
0°-180°	11385.2	100.0

Coefficient of Utilization



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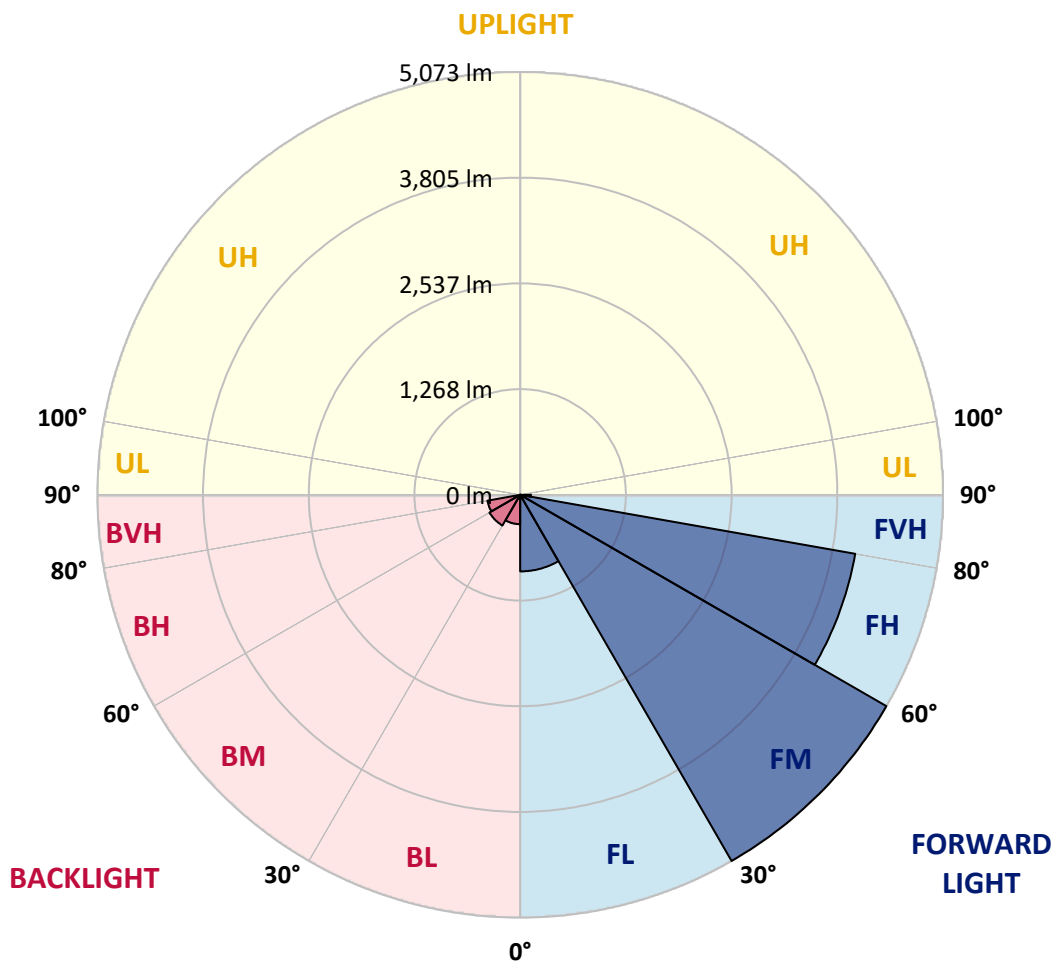
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	918.6	8.1			
FM (30°-60°)	5073.3	44.6			
FH (60°-80°)	4081.6	35.9			G2/5000
FVH (80°-90°)	129.6	1.1			G2/225
BL (0°-30°)	352.7	3.1	B1/500		
BM (30°-60°)	424.9	3.7	B1/1000		
BH (60°-80°)	398.4	3.5	B1/500		G1/500
BVH (80°-90°)	6.1	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2510.9	2510.9	2510.9	2510.9	2510.9	2510.9	2510.9	2510.9	2510.9	2510.9	2510.9
2.5°	2595.8	2601.1	2600.6	2604.5	2613.8	2614.4	2605.2	2587.2	2583.3	2560.0	2519.4
5°	2394.0	2409.3	2418.5	2456.3	2498.8	2550.0	2588.6	2602.5	2600.6	2584.0	2522.8
7.5°	2163.6	2178.7	2189.4	2233.9	2290.4	2378.1	2478.3	2560.7	2568.0	2586.0	2520.1
10°	2010.1	2012.8	2027.5	2070.0	2129.1	2218.6	2338.2	2482.2	2504.3	2570.0	2513.5
12.5°	1883.9	1885.9	1905.2	1951.1	2014.1	2104.4	2230.0	2396.7	2430.5	2550.0	2512.2
15°	1794.4	1801.6	1818.9	1866.7	1933.8	2023.4	2152.2	2333.5	2374.0	2542.7	2524.1
17.5°	1764.5	1772.4	1777.7	1812.2	1873.3	1961.0	2093.1	2292.4	2338.2	2546.8	2547.4
20°	1795.6	1801.6	1789.7	1798.2	1836.1	1914.5	2043.4	2257.3	2311.6	2551.4	2577.2
22.5°	1911.9	1914.5	1881.9	1844.1	1837.6	1880.6	2004.2	2229.2	2287.8	2564.0	2612.5
25°	2111.0	2106.4	2053.3	1971.6	1894.5	1874.7	1980.9	2212.0	2275.8	2577.2	2649.0
27.5°	2351.5	2358.1	2285.1	2166.3	2019.4	1914.5	1977.6	2204.7	2270.5	2586.6	2680.8
30°	2643.6	2653.0	2569.3	2419.9	2209.4	2012.8	2008.2	2203.5	2267.1	2580.7	2683.4
32.5°	2941.8	2953.1	2887.4	2733.4	2463.1	2177.5	2077.2	2217.9	2273.8	2560.0	2668.2
35°	3253.9	3269.9	3226.1	3093.9	2807.1	2415.3	2198.7	2262.6	2305.1	2558.1	2653.0
37.5°	3684.9	3699.5	3617.1	3477.1	3223.4	2734.0	2394.0	2346.2	2378.7	2589.9	2656.9
40°	4328.5	4326.4	4113.9	3899.5	3681.0	3139.0	2668.2	2497.6	2514.1	2686.2	2706.1
42.5°	5029.7	5026.3	4712.2	4386.2	4188.9	3637.7	3028.8	2759.2	2747.9	2863.4	2833.7
45°	5570.2	5569.6	5313.3	4946.0	4800.5	4210.3	3495.0	3123.1	3105.9	3151.7	3068.7
47.5°	5800.6	5804.7	5675.9	5417.5	5478.7	4984.5	4082.6	3650.4	3624.5	3605.8	3479.8
50°	5621.4	5629.3	5640.0	5589.6	5976.0	6025.1	4871.0	4393.5	4380.9	4297.9	4100.7
52.5°	5035.7	5076.1	5200.9	5361.1	6148.5	7023.8	6106.8	5316.6	5248.8	5160.6	4943.4
55°	4048.8	4093.3	4330.4	4718.8	5891.7	7680.0	7838.7	6506.6	6393.6	6130.0	5816.5
57.5°	2679.6	2748.6	3092.5	3586.7	5145.2	7785.6	9566.6	8158.0	7764.9	7043.2	6689.9
60°	1476.3	1542.6	1915.8	2363.4	3716.2	7263.6	10728.7	10308.4	9613.8	8063.8	7750.3
62.5°	909.2	944.9	1220.5	1636.9	2228.7	5733.0	10969.2	13010.5	12206.3	9378.0	9031.4
65°	723.9	739.1	874.0	1338.1	1597.7	3410.0	10192.8	15070.4	14802.1	10969.2	10178.2
67°	702.6	708.6	772.4	1148.8	1506.1	2090.4	8539.3	15405.8	15678.1	11932.0	10214.1
67.5°	707.2	713.9	774.2	1096.4	1503.5	1921.1	7969.6	15273.6	15617.7	12008.5	10055.4
70°	682.1	702.6	886.5	1095.8	1429.7	1596.4	4772.6	13233.7	13591.5	11157.8	8532.0
72.5°	241.7	243.0	383.1	886.5	1554.5	1613.6	2396.7	9701.4	9966.3	8535.3	6151.4
75°	143.4	122.2	127.5	252.3	1485.5	1567.3	1382.6	6199.2	6298.0	4890.9	3115.1
77.5°	99.0	86.3	89.0	111.6	565.8	1545.4	1098.4	3232.7	3127.1	1715.4	663.4
80°	56.5	49.8	53.1	97.6	205.8	1441.7	1035.9	1310.8	1117.6	291.0	183.3
82.5°	29.9	25.2	30.5	80.4	143.4	898.5	1037.9	633.6	502.1	98.3	124.9
85°	10.6	8.7	14.6	55.2	95.6	275.6	962.3	532.5	418.4	47.8	95.0
87.5°	1.9	1.9	6.0	22.5	38.4	84.4	569.0	316.2	211.8	28.6	65.0
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°	2510.9	2510.9	2510.9	2510.9	2510.9	2510.9	2510.9	2510.9	2510.9	2510.9	2510.9
2.5°	2502.9	2474.3	2435.8	2388.7	2332.9	2283.8	2247.2	2209.4	2201.3	2188.1	2186.1
5°	2486.2	2437.1	2341.5	2232.0	2115.1	2009.5	1923.8	1847.5	1813.6	1784.4	1781.0
7.5°	2461.7	2388.1	2225.3	2048.7	1866.0	1700.0	1559.3	1459.7	1367.9	1324.1	1317.5
10°	2433.1	2327.6	2094.5	1849.4	1597.0	1362.6	1153.6	978.2	872.0	808.8	800.8
12.5°	2406.6	2268.5	1961.0	1642.9	1307.6	994.2	725.1	557.8	446.3	401.2	395.9
15°	2394.0	2220.7	1836.1	1431.8	1004.8	632.9	396.4	306.9	270.3	259.7	259.0
17.5°	2392.6	2180.1	1714.0	1213.3	703.9	367.9	258.4	235.7	228.4	225.7	225.7
20°	2391.9	2141.6	1591.7	986.8	446.9	245.1	215.1	209.8	204.5	201.2	201.2
22.5°	2399.4	2107.2	1464.2	755.7	281.6	198.5	189.3	184.0	177.3	172.7	171.9
25°	2406.6	2080.6	1334.2	537.8	203.8	172.7	163.3	156.0	146.8	140.8	140.1
27.5°	2407.9	2047.3	1194.7	360.0	170.7	150.7	138.8	127.5	116.9	110.9	110.2
30°	2388.1	1991.5	1040.0	243.0	150.7	130.9	115.0	102.9	93.0	88.4	88.4
32.5°	2348.8	1922.6	869.9	183.3	134.1	112.2	95.0	83.7	77.1	75.1	74.4
35°	2313.7	1848.2	695.3	155.3	120.3	95.0	77.8	70.3	66.5	65.8	65.0
37.5°	2293.1	1788.3	531.3	140.8	106.9	79.7	65.8	60.5	58.4	57.1	57.9
40°	2309.0	1738.5	392.5	128.8	93.7	66.5	55.8	53.1	51.2	50.5	50.5
42.5°	2378.7	1729.9	291.5	118.1	80.9	55.2	48.5	46.5	45.2	44.5	45.2
45°	2562.0	1783.0	226.5	108.2	68.5	46.5	41.1	40.6	39.9	39.9	39.9
47.5°	2837.6	1892.5	188.6	96.9	57.1	39.9	35.8	35.3	34.6	35.3	35.3
50°	3304.4	2093.1	168.7	85.7	47.2	33.9	30.5	30.5	30.5	30.5	31.3
52.5°	4014.3	2487.5	155.3	74.4	38.4	28.6	26.0	26.0	26.6	26.6	27.2
55°	4805.3	3010.8	143.4	63.2	32.6	24.0	21.3	21.9	22.5	23.3	23.3
57.5°	5663.3	3590.6	133.5	51.8	27.8	19.3	18.0	18.5	19.3	20.7	20.7
60°	6698.5	4218.3	118.8	40.6	23.3	15.4	14.0	15.4	17.2	18.5	19.3
62.5°	7835.3	4825.2	100.3	31.9	19.3	11.9	11.3	14.0	16.6	18.0	18.5
65°	8612.3	5015.7	77.1	26.0	14.6	8.7	9.3	12.7	15.9	18.0	18.0
67°	8297.6	4547.6	63.2	21.9	11.9	6.6	8.7	12.7	15.9	17.2	18.0
67.5°	8079.0	4364.2	60.5	21.3	11.3	6.6	8.7	12.7	15.9	18.0	18.0
70°	6573.6	3278.5	50.5	15.9	9.3	6.0	7.2	11.9	15.4	17.2	17.2
72.5°	4567.5	2021.5	45.2	11.3	7.9	5.3	6.6	11.3	14.6	16.6	17.2
75°	2171.6	731.8	38.4	8.7	7.2	4.6	6.0	11.3	14.6	16.6	16.6
77.5°	443.0	170.0	31.3	7.2	6.0	4.6	5.3	10.6	14.0	15.9	15.9
80°	145.4	65.8	23.3	6.6	6.0	4.6	5.3	9.9	14.0	15.4	15.9
82.5°	104.9	33.1	15.4	6.6	6.0	4.6	4.6	9.9	13.2	15.4	15.4
85°	80.4	23.3	9.9	6.6	6.0	4.6	4.6	9.3	12.7	14.6	14.6
87.5°	53.1	9.3	7.9	6.6	6.0	4.6	4.6	9.3	11.9	14.0	14.6
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)