

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: P270040

Luminaire Tested: **GPC-AF-02-LED-E1-SL3-7027-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P270040
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GPC-AF-02-LED-E1-SL3-7027-HSS
Description: GALLEON PEDESTRIAN LUMINAIRE
(2) 70 CRI, 2700K, 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: 9221 lumens
Efficiency: N/A
Efficacy: 81.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

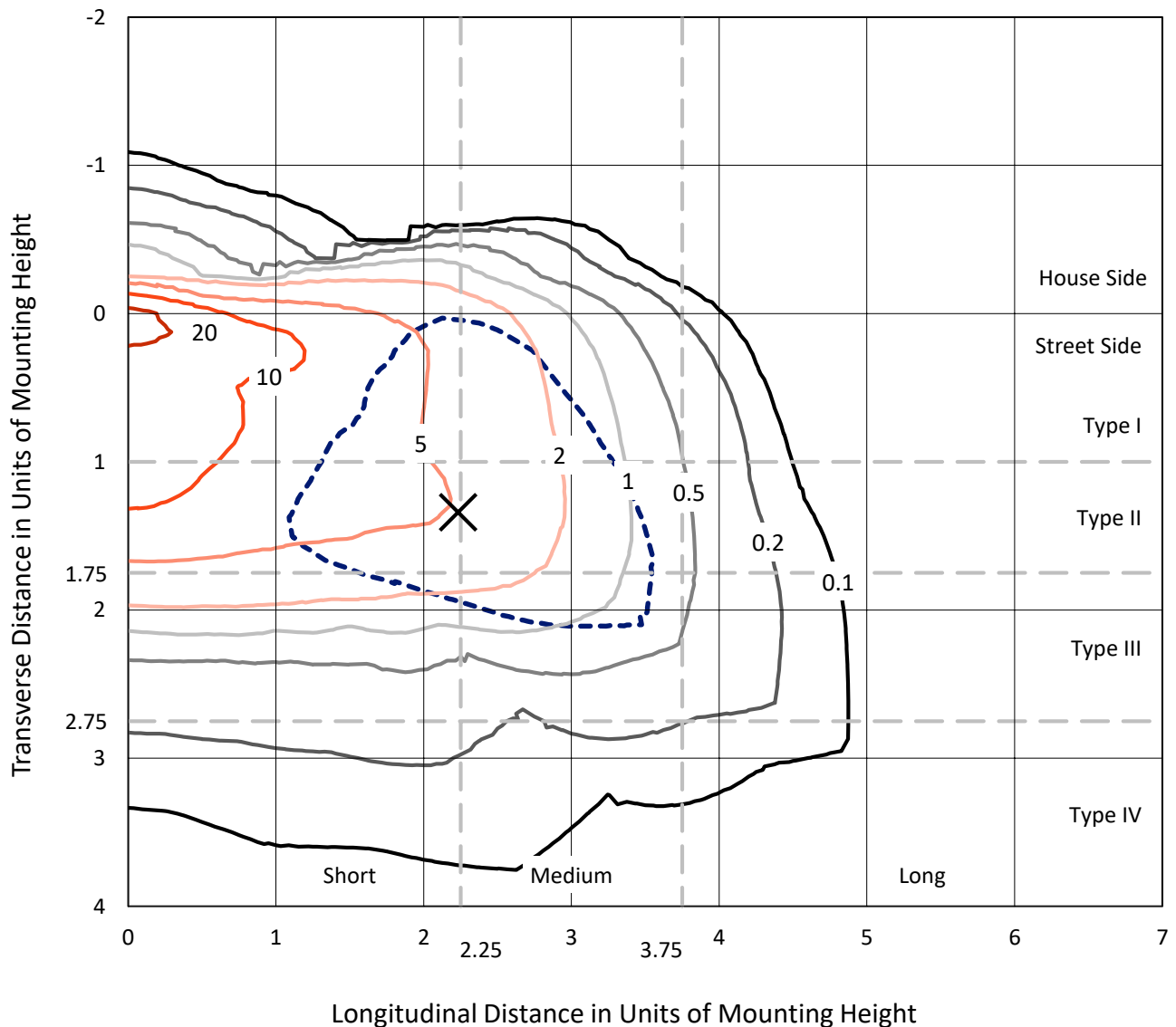
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

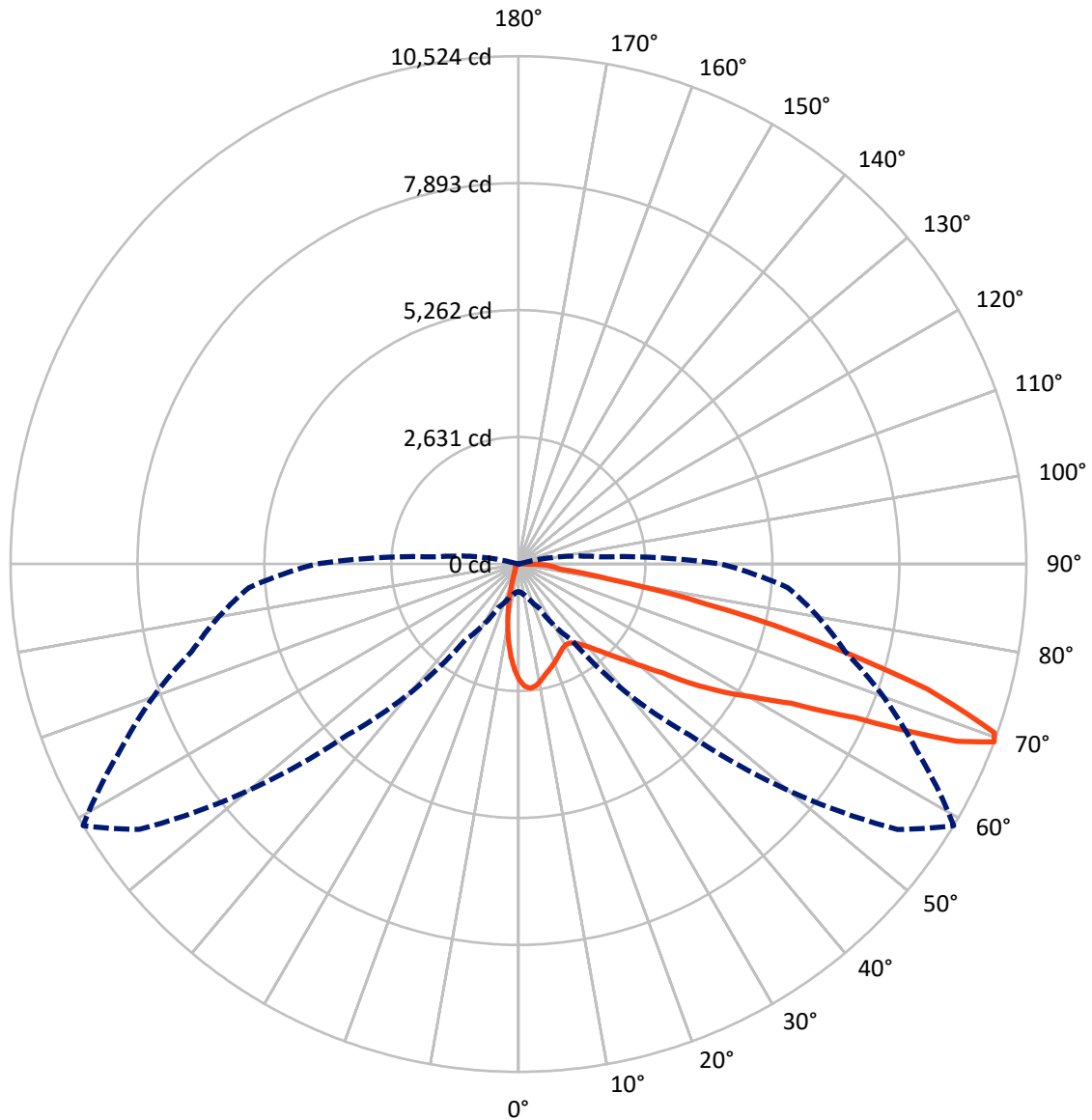
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 24.1 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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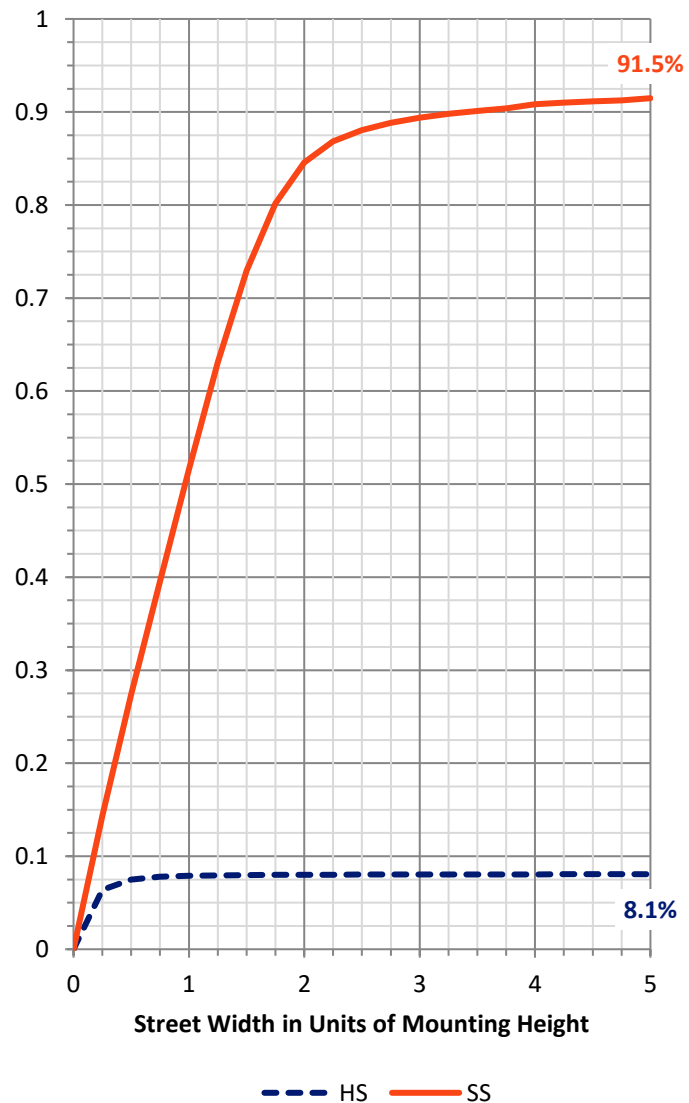
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	750.9	0.0	750.9
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	8470.1	0.0	8470.1
	% Fixture	91.9	0.0	91.9
Total	Lumens	9221.0	0.0	9221.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	194.8	2.1
10°-20°	402.5	4.4
20°-30°	541.7	5.9
30°-40°	786.5	8.5
40°-50°	1309.6	14.2
50°-60°	2042.9	22.2
60°-70°	2527.9	27.4
70°-80°	1281.1	13.9
80°-90°	134.0	1.5
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°	9221.0	100.0
0°-180°	9221.0	100.0



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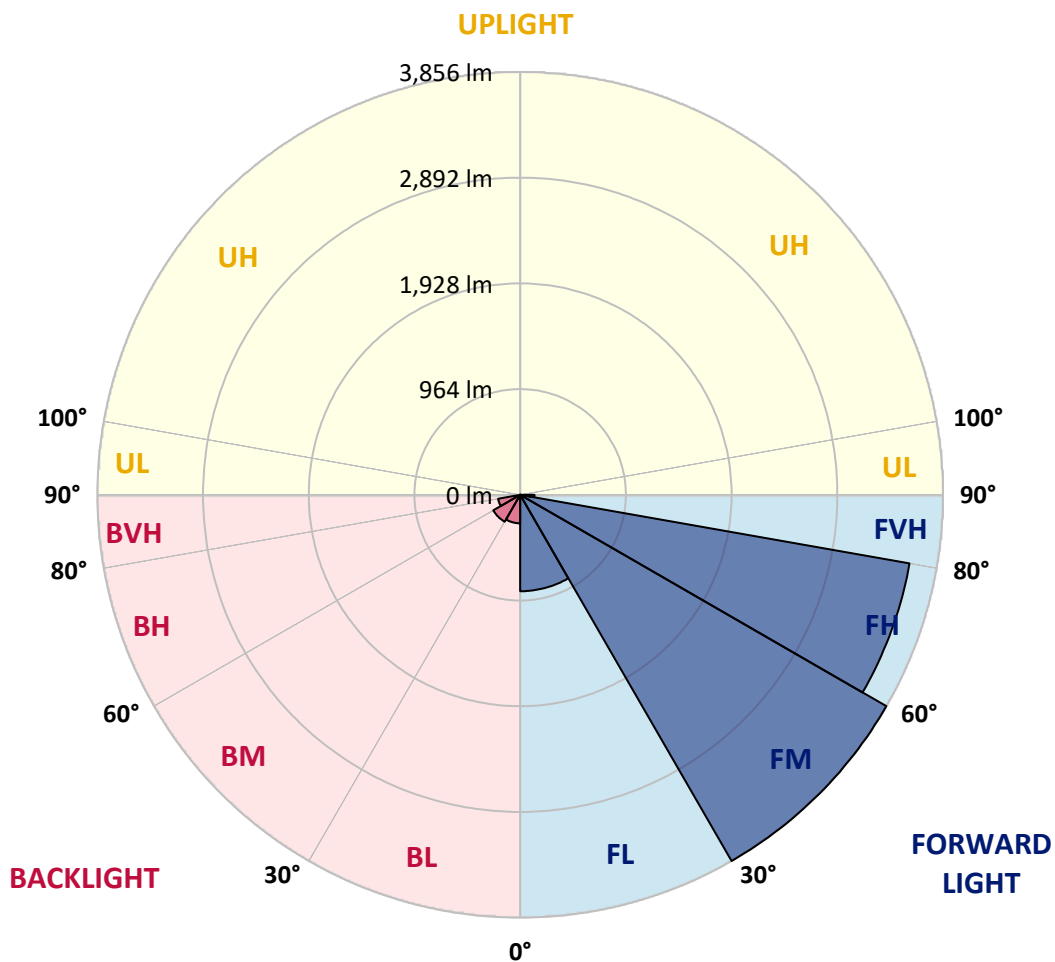
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	879.1	9.5			
FM	(30°-60°)	3856.0	41.8			
FH	(60°-80°)	3605.1	39.1			G2/5000
FVH	(80°-90°)	129.9	1.4			G2/225
BL	(0°-30°)	259.9	2.8	B1/500		
BM	(30°-60°)	282.9	3.1	B1/1000		
BH	(60°-80°)	203.9	2.2	B1/500		G1/500
BVH	(80°-90°)	4.1	0.0			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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	2400.1	2400.1	2400.1	2400.1	2400.1	2400.1	2400.1	2400.1	2400.1	2400.1	2400.1
2.5°	2630.5	2629.5	2618.1	2612.8	2603.5	2583.6	2552.9	2536.8	2510.7	2465.3	2404.3
5°	2606.6	2619.1	2625.8	2626.5	2633.2	2625.8	2598.3	2584.8	2548.8	2475.6	2366.2
7.5°	2443.8	2448.6	2468.0	2484.6	2517.0	2547.7	2557.6	2551.8	2530.4	2452.3	2306.8
10°	2269.7	2274.5	2297.3	2319.2	2363.1	2410.5	2460.5	2471.0	2480.0	2418.9	2249.4
12.5°	2119.6	2124.3	2147.8	2176.5	2227.4	2285.8	2363.6	2380.8	2419.9	2387.1	2203.5
15°	1990.3	1992.4	2015.3	2050.7	2111.7	2186.8	2275.0	2302.5	2362.5	2364.7	2163.4
17.5°	1880.2	1885.5	1899.6	1933.4	2000.2	2093.1	2195.6	2235.3	2305.7	2345.8	2124.3
20°	1813.0	1818.2	1817.7	1836.5	1896.4	1995.4	2116.4	2163.8	2249.4	2326.6	2089.4
22.5°	1799.9	1799.9	1786.4	1783.8	1819.2	1902.2	2034.0	2092.0	2198.8	2318.3	2064.8
25°	1846.3	1844.3	1810.4	1782.7	1784.4	1833.8	1954.4	2023.2	2156.1	2323.9	2051.8
27.5°	1944.4	1941.7	1898.9	1846.3	1804.2	1803.5	1893.7	1967.8	2122.2	2351.1	2056.9
30°	2079.9	2078.9	2032.5	1966.3	1889.7	1819.2	1873.0	1940.2	2100.2	2400.1	2068.9
32.5°	2228.1	2226.4	2191.5	2121.6	2024.7	1889.7	1894.9	1951.2	2106.5	2465.3	2098.3
35°	2385.0	2382.3	2367.3	2306.3	2199.4	2019.5	1966.7	2010.5	2146.2	2562.8	2155.6
37.5°	2555.0	2557.6	2568.6	2510.1	2398.0	2201.4	2087.2	2116.9	2225.9	2695.3	2248.8
40°	2805.8	2805.2	2808.9	2732.3	2624.3	2424.0	2255.6	2265.0	2359.5	2871.0	2390.7
42.5°	3260.9	3229.1	3132.7	2976.3	2867.7	2678.6	2468.0	2458.0	2522.6	3088.5	2589.4
45°	3872.7	3804.9	3554.6	3254.6	3116.0	2965.3	2729.1	2697.3	2738.6	3349.6	2834.4
47.5°	4398.7	4328.4	3974.3	3544.6	3379.3	3237.5	3035.3	2977.8	2991.4	3642.1	3145.2
50°	4577.6	4543.2	4233.9	3797.0	3634.4	3580.0	3390.4	3320.4	3301.1	3980.5	3505.5
52.5°	4515.5	4512.9	4307.0	3960.6	3867.9	3934.7	3837.1	3756.4	3685.3	4337.1	3872.1
55°	4415.9	4429.0	4336.7	4104.0	4101.0	4258.4	4448.2	4380.9	4175.5	4724.5	4188.1
57.5°	4141.1	4196.9	4319.9	4375.3	4503.6	4664.5	4957.1	4996.8	4753.8	5021.3	4450.4
60°	3360.0	3482.5	3885.1	4414.4	5022.3	5423.8	5571.4	5605.2	5228.2	5267.9	4804.3
62.5°	2385.0	2510.1	3020.6	3915.9	5030.1	6421.4	6486.5	6353.5	5750.8	5633.5	5415.0
65°	1266.0	1362.5	1779.6	2826.6	4361.2	6652.8	8086.7	7690.4	6672.6	6352.5	6203.9
67.5°	647.6	676.9	842.6	1383.3	2998.2	5909.3	9521.1	9800.1	8261.4	7065.8	6165.7
69°	573.1	590.2	700.3	1000.2	1919.9	5005.1	9591.1	10524.4	9093.1	7006.3	5603.2
70°	554.9	570.0	670.0	905.2	1500.7	4197.4	9323.6	10460.8	9305.8	6780.0	5183.0
72.5°	470.8	483.8	596.6	799.9	1219.5	2083.6	7573.6	8864.1	8350.6	5648.1	3751.6
75°	314.9	357.6	572.5	749.8	1134.6	1183.6	4993.0	6405.6	5950.5	3809.5	1954.4
77.5°	75.5	81.3	161.7	596.6	1037.6	1041.9	2568.1	3982.0	3247.9	1357.8	462.0
80°	40.7	39.0	45.4	118.3	966.1	977.6	1155.9	1933.0	1159.6	225.2	152.3
82.5°	28.7	27.0	29.3	49.5	303.9	890.6	836.3	874.9	480.8	86.5	68.4
85°	10.4	9.9	16.2	44.8	95.4	512.0	859.3	721.7	389.5	39.6	50.0
87.5°	3.7	3.1	6.3	24.6	29.3	218.0	530.3	545.5	153.3	24.0	23.4
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°	2400.1	2400.1	2400.1	2400.1	2400.1	2400.1	2400.1	2400.1	2400.1	2400.1	2400.1
2.5°	2378.7	2346.5	2286.9	2225.9	2169.6	2101.9	2068.0	2034.7	2020.5	2015.3	1990.7
5°	2309.9	2255.1	2129.0	2002.2	1885.5	1761.3	1679.6	1613.7	1575.2	1556.5	1526.7
7.5°	2221.8	2132.0	1940.7	1745.1	1563.2	1383.8	1250.9	1148.8	1078.2	1044.4	1013.6
10°	2136.3	2016.9	1744.7	1478.3	1231.0	993.3	809.7	676.9	591.9	552.6	527.7
12.5°	2059.6	1904.8	1555.3	1218.0	907.7	629.4	442.7	336.9	284.1	265.9	257.1
15°	1991.4	1801.6	1376.6	970.9	614.8	359.9	242.0	205.9	197.5	197.5	196.5
17.5°	1926.7	1700.3	1204.0	738.9	385.8	220.1	184.1	179.4	179.4	181.5	181.5
20°	1864.6	1604.0	1037.2	530.3	243.0	174.7	166.4	165.3	166.4	168.9	168.9
22.5°	1811.4	1516.2	881.1	364.0	180.4	157.5	153.3	151.8	152.3	153.8	154.9
25°	1771.7	1442.3	734.2	246.7	155.3	143.4	138.7	136.2	133.9	133.9	135.0
27.5°	1746.8	1379.6	591.9	179.4	139.7	130.3	123.1	118.8	114.2	111.6	112.6
30°	1728.5	1320.1	458.3	146.6	125.1	115.7	106.4	99.6	92.9	89.7	90.6
32.5°	1721.7	1272.3	342.6	129.4	112.1	101.7	90.2	81.3	74.0	71.4	72.0
35°	1739.9	1234.2	250.7	116.8	101.7	88.7	75.5	65.7	59.9	58.4	58.8
37.5°	1787.9	1213.9	187.7	106.4	92.3	77.8	63.2	53.7	50.0	50.0	50.6
40°	1878.6	1213.3	150.6	99.1	83.9	67.3	52.1	45.4	43.3	44.3	44.8
42.5°	2011.1	1241.0	131.4	92.3	76.6	57.3	43.3	38.5	38.1	39.0	39.6
45°	2192.0	1291.6	121.0	86.5	68.8	48.0	36.6	33.3	33.3	34.9	35.5
47.5°	2413.7	1365.7	112.1	80.8	61.1	40.2	31.4	29.3	29.7	31.4	31.8
50°	2680.6	1458.9	103.2	74.6	55.2	33.3	27.0	25.5	26.1	28.1	28.7
52.5°	2984.6	1584.6	95.9	68.8	48.0	27.7	22.9	21.9	22.9	25.1	25.5
55°	3245.3	1697.3	87.0	64.0	38.5	22.9	18.8	18.8	19.9	22.4	22.9
57.5°	3496.2	1815.0	79.3	55.2	30.3	18.2	15.6	16.2	17.7	20.3	20.9
60°	3864.2	2014.8	69.9	46.4	22.9	14.6	13.0	13.6	15.6	18.2	18.8
62.5°	4489.4	2318.7	60.5	38.5	17.7	11.5	10.4	11.5	14.1	17.2	17.7
65°	5053.7	2442.3	49.5	32.2	13.6	8.9	8.9	10.4	13.6	16.7	17.2
67.5°	4739.2	2056.0	38.5	25.5	10.4	6.7	7.2	9.9	13.0	16.7	17.2
69°	4191.2	1681.1	32.9	20.3	8.9	6.3	6.7	9.9	13.0	16.2	16.7
70°	3764.2	1419.3	29.3	17.2	7.8	6.3	6.7	9.4	13.0	16.2	16.7
72.5°	2521.1	766.6	23.4	12.5	7.2	5.7	5.7	9.4	12.5	15.6	16.2
75°	1083.5	211.7	18.8	8.9	6.3	5.2	5.2	8.9	11.9	15.1	16.2
77.5°	198.2	53.7	15.1	7.8	6.3	5.2	4.8	8.4	11.5	14.6	15.1
80°	78.7	26.6	11.9	6.7	5.7	4.8	4.2	7.8	11.0	14.1	14.6
82.5°	47.4	15.1	9.9	6.3	5.7	4.2	3.7	6.7	10.4	13.6	14.1
85°	38.5	10.4	7.8	6.3	5.2	4.2	3.1	6.3	9.4	13.0	13.6
87.5°	18.8	7.2	7.2	5.7	5.2	4.2	3.1	5.7	8.9	12.5	13.0
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)