

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: P948459

Luminaire Tested: **GALN-SB3C-730-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948459
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3C-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18707 lumens
Efficiency: N/A
Efficacy: 125.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 149.1
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

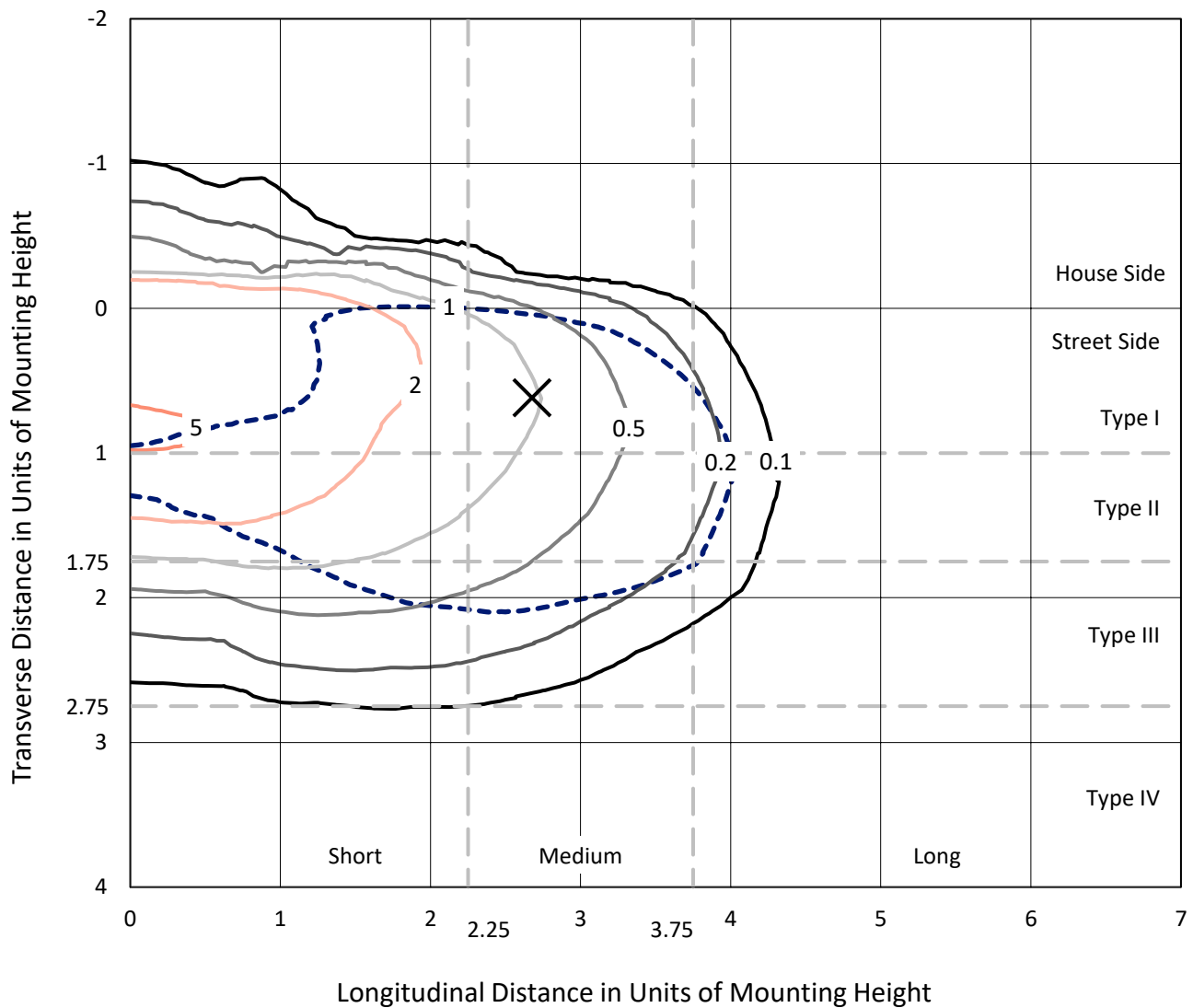


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Iso-Footcandle Lines of Horizontal Illumination

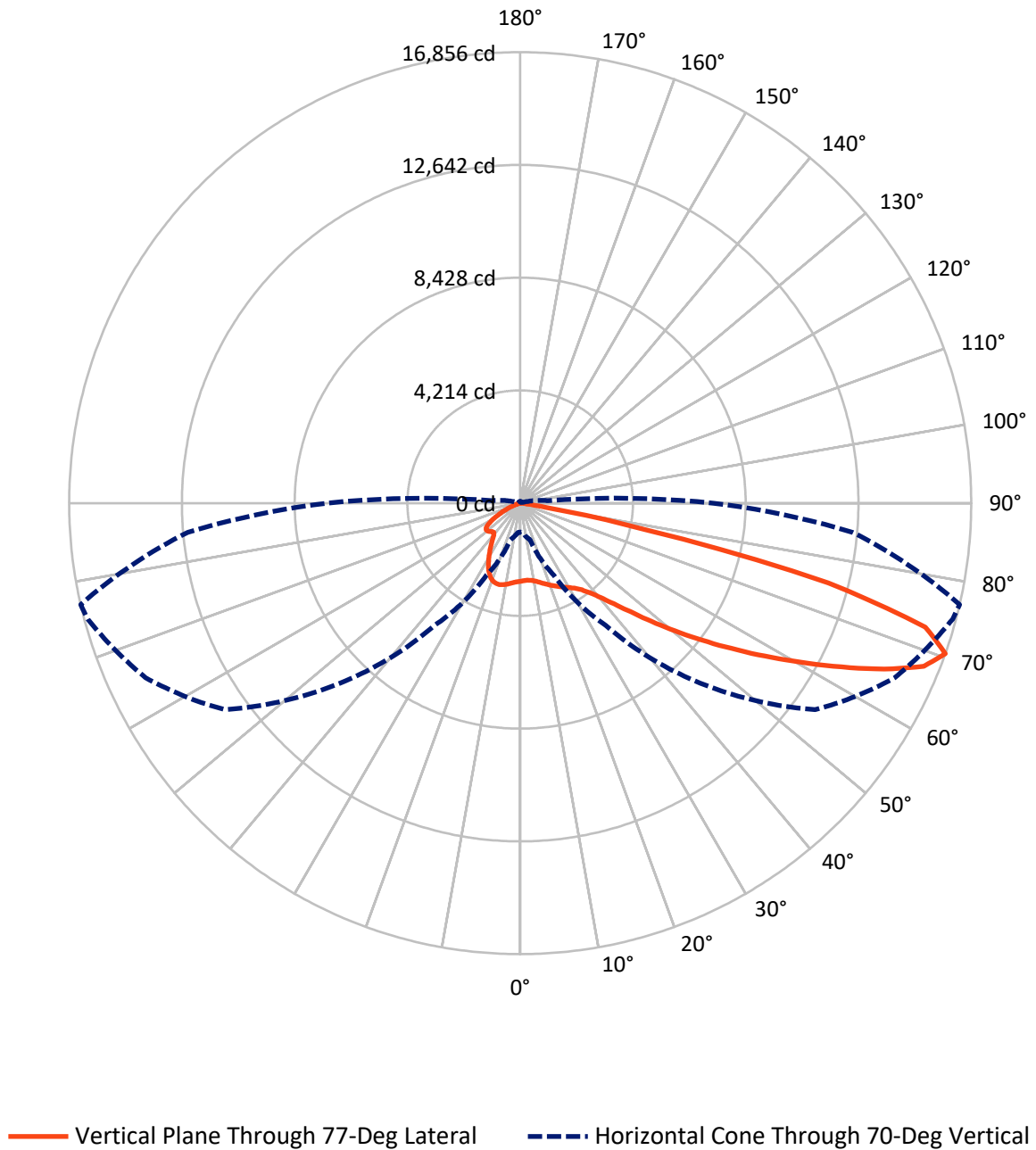
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.5 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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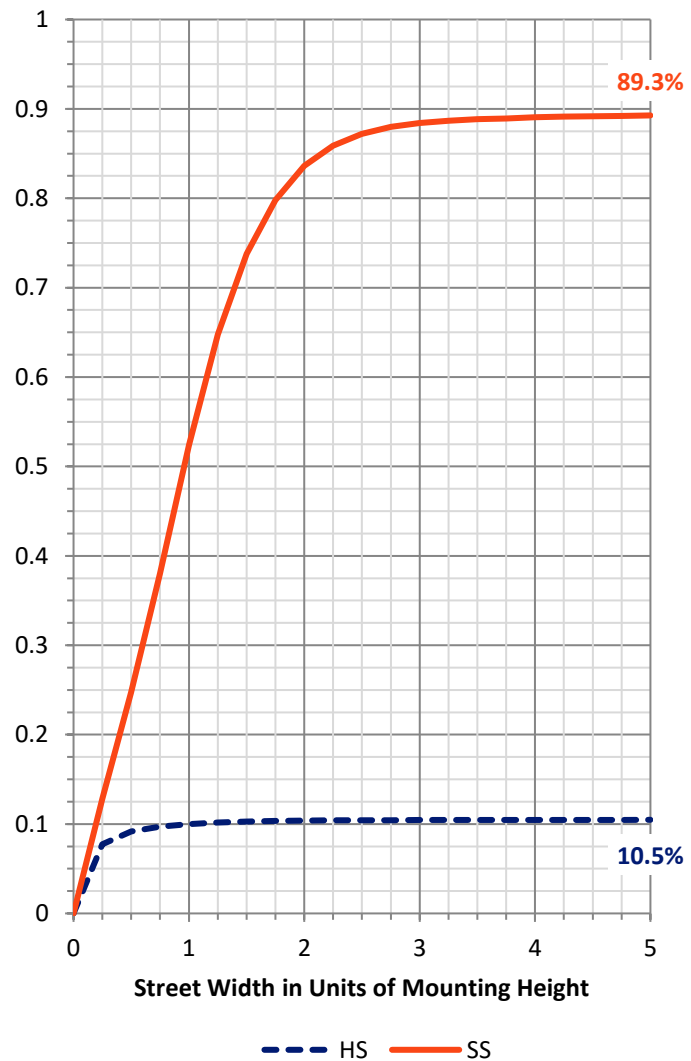
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1972.0	0.0	1972.0
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	16735.0	0.0	16735.0
	% Fixture	89.5	0.0	89.5
Total	Lumens	18707.0	0.0	18707.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.5	1.3
10°-20°	597.0	3.2
20°-30°	923.4	4.9
30°-40°	1675.5	9.0
40°-50°	3162.7	16.9
50°-60°	4569.9	24.4
60°-70°	4864.5	26.0
70°-80°	2577.9	13.8
80°-90°	84.6	0.5
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°	18707.0	100.0
0°-180°	18707.0	100.0

Coefficient of Utilization



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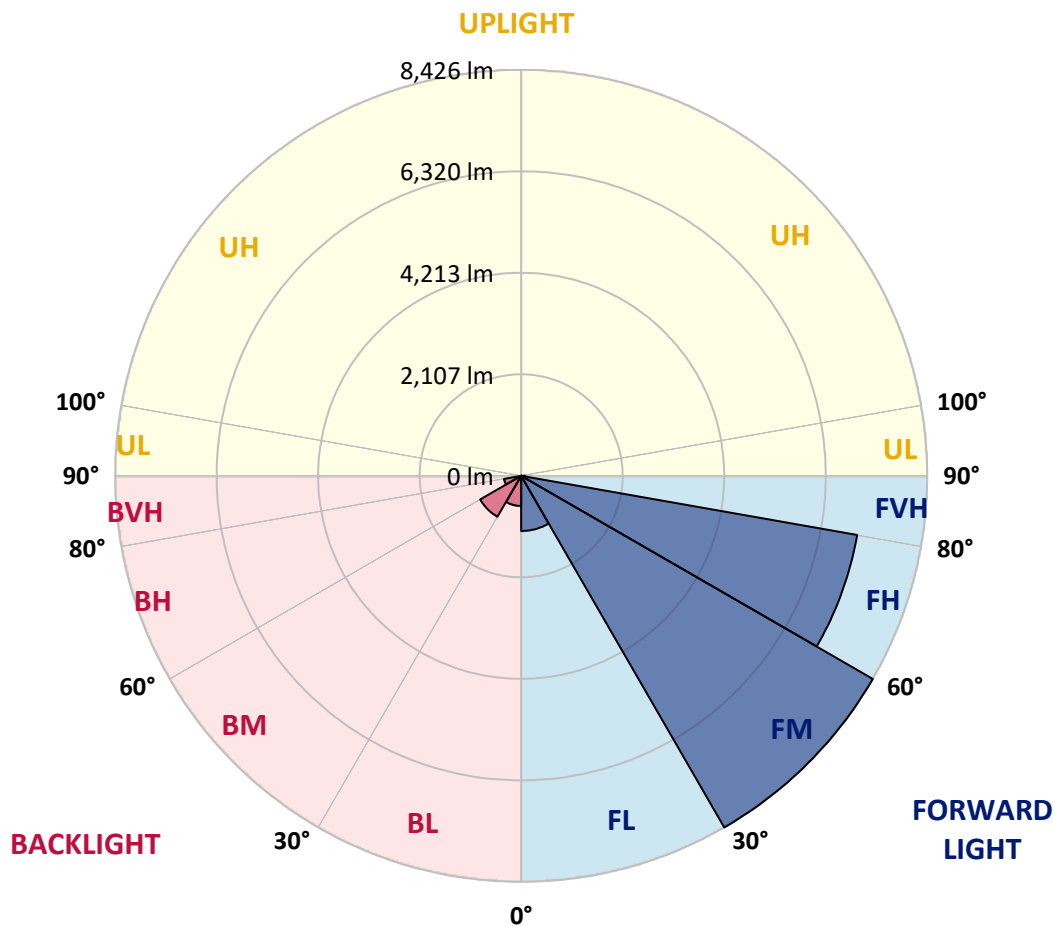
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1145.3	6.1			
FM	(30°-60°)	8426.5	45.0			
FH	(60°-80°)	7080.9	37.9			G3/7500
FVH	(80°-90°)	82.4	0.4			G1/100
BL	(0°-30°)	626.5	3.3	B2/1000		
BM	(30°-60°)	981.7	5.2	B1/1000		
BH	(60°-80°)	361.5	1.9	B1/500		G1/500
BVH	(80°-90°)	2.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2918.0	2918.0	2918.0	2918.0	2918.0	2918.0	2918.0	2918.0	2918.0	2918.0	2918.0
2.5°	2739.6	2764.4	2760.8	2777.4	2783.3	2806.9	2830.5	2862.4	2897.9	2896.7	2920.3
5°	2584.8	2609.6	2615.5	2638.0	2666.3	2702.9	2751.4	2815.2	2881.3	2892.0	2939.2
7.5°	2401.7	2427.7	2443.0	2487.9	2539.9	2615.5	2694.7	2788.0	2897.9	2913.2	3004.2
10°	2218.6	2242.2	2262.3	2326.1	2408.8	2521.0	2649.8	2784.5	2932.1	2954.6	3083.3
12.5°	2105.2	2127.6	2150.1	2205.6	2308.4	2445.4	2620.3	2801.0	2988.8	3020.7	3190.8
15°	2065.0	2085.1	2102.8	2152.4	2248.1	2404.1	2614.3	2835.3	3060.9	3103.4	3320.8
17.5°	2070.9	2081.6	2093.4	2131.2	2224.5	2385.2	2625.0	2894.3	3146.0	3183.8	3450.7
20°	2105.2	2111.1	2112.3	2138.3	2221.0	2382.8	2646.2	2951.0	3226.3	3277.1	3579.5
22.5°	2148.9	2151.3	2148.9	2166.6	2243.4	2400.5	2674.6	3019.6	3316.1	3363.3	3709.5
25°	2353.3	2308.4	2251.7	2217.4	2281.2	2434.8	2717.1	3111.7	3414.1	3460.2	3835.9
27.5°	2987.7	2858.9	2655.7	2427.7	2359.2	2484.4	2776.2	3205.0	3513.4	3554.7	3971.7
30°	4017.8	3848.9	3503.9	2990.0	2609.6	2588.4	2853.0	3298.4	3618.5	3663.4	4117.0
32.5°	5050.3	5009.0	4610.8	3899.7	3173.1	2819.9	2980.6	3424.8	3757.9	3793.3	4313.1
35°	6094.6	6010.7	5684.7	4981.8	4041.4	3291.3	3193.2	3590.1	3941.0	3981.2	4599.0
37.5°	6894.4	6843.6	6641.6	6062.7	5071.6	4019.0	3557.1	3846.5	4206.8	4251.7	4965.2
40°	7600.9	7577.2	7508.7	7127.1	6223.4	4971.2	4122.9	4243.4	4575.4	4628.6	5414.2
42.5°	8156.1	8211.6	8250.6	8144.3	7410.7	6058.0	4883.7	4801.0	5089.3	5143.6	5985.9
45°	8724.3	8743.2	8900.4	9053.9	8589.7	7194.5	5741.4	5454.3	5728.4	5795.7	6671.1
47.5°	9089.4	9165.0	9441.4	9711.9	9580.8	8321.5	6662.9	6225.8	6469.1	6595.5	7439.0
50°	9116.5	9259.5	9639.9	10111.2	10302.6	9394.2	7664.7	7104.7	7363.4	7502.8	8258.9
52.5°	8664.1	8886.2	9475.7	10165.6	10692.5	10302.6	8700.7	7983.6	8315.6	8497.5	9109.5
55°	6642.8	6933.4	8857.8	9870.2	10707.8	10991.4	9709.6	8899.2	9376.4	9582.0	10028.5
57.5°	5787.5	5934.0	6964.1	9357.5	10423.1	11269.0	10621.6	9771.0	10530.6	10785.8	10896.8
60°	4815.2	5007.8	5840.6	8518.8	10036.8	11296.1	11427.3	10895.7	11781.7	12068.8	11693.1
62.5°	3272.4	3481.5	4309.6	7077.5	9508.8	11283.1	12087.7	12053.4	13172.1	13480.5	12367.6
65°	2027.2	2158.3	2704.1	5779.2	8770.4	11297.3	12778.7	13459.2	14639.4	14952.4	12889.8
67.5°	1601.9	1662.2	1946.9	4437.2	7498.1	10978.4	13468.7	14781.2	16020.4	16268.5	13049.3
70°	1076.2	1112.8	1416.4	2974.7	5578.4	9506.4	13455.7	15445.1	16731.6	16855.6	12468.1
72.5°	567.1	595.4	828.1	1377.5	3369.2	6757.4	11342.2	14651.2	16023.9	15837.3	10657.0
75°	283.5	330.8	557.6	699.4	1438.9	3768.5	7043.3	11551.3	12612.2	11889.2	6837.7
77.5°	215.0	259.9	460.7	460.7	500.9	1268.8	2982.9	6300.2	5811.1	4838.8	2007.1
80°	137.0	177.2	402.8	348.5	209.1	322.5	777.3	1764.9	1234.5	939.2	365.0
82.5°	80.3	115.8	335.5	230.4	117.0	119.3	219.7	375.7	320.1	249.3	112.2
85°	31.9	75.6	230.4	91.0	46.1	29.5	66.2	80.3	66.2	49.6	28.4
87.5°	0.0	17.7	40.2	0.0	3.5	2.4	4.7	5.9	5.9	4.7	9.5
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°	2918.0	2918.0	2918.0	2918.0	2918.0	2918.0	2918.0	2918.0	2918.0	2918.0	2918.0
2.5°	2930.9	2933.3	2940.4	2941.6	2925.0	2903.8	2895.5	2892.0	2877.8	2876.6	2879.0
5°	2966.4	2977.0	2966.4	2935.7	2862.4	2759.7	2681.7	2617.9	2560.0	2542.3	2531.7
7.5°	3037.3	3047.9	3016.0	2895.5	2711.2	2506.8	2322.5	2192.6	2075.6	2031.9	2014.2
10°	3138.9	3153.0	3052.6	2809.3	2483.2	2154.8	1842.9	1623.2	1451.9	1382.2	1352.7
12.5°	3266.5	3272.4	3072.7	2678.1	2186.7	1717.7	1275.9	1040.8	888.4	831.7	814.0
15°	3407.0	3398.8	3075.1	2499.8	1782.7	1214.4	832.9	684.0	622.6	603.7	603.7
17.5°	3554.7	3520.4	3027.8	2242.2	1339.7	830.5	617.9	582.4	571.8	567.1	565.9
20°	3700.0	3623.2	2941.6	1905.5	961.6	620.2	561.1	550.5	544.6	542.2	539.9
22.5°	3832.3	3701.2	2793.9	1514.5	698.2	548.2	530.4	521.0	510.3	505.6	504.4
25°	3961.1	3746.1	2586.0	1149.5	558.8	512.7	498.5	480.8	466.6	460.7	458.4
27.5°	4086.3	3774.4	2326.1	850.6	498.5	479.6	453.6	428.8	418.2	415.8	413.5
30°	4219.8	3783.9	2030.8	634.4	461.9	438.3	400.5	372.1	366.2	367.4	367.4
32.5°	4382.8	3798.1	1733.1	519.8	431.2	388.7	343.8	314.2	309.5	314.2	313.1
35°	4577.8	3826.4	1446.0	478.4	404.0	337.9	289.4	264.6	259.9	263.4	262.3
37.5°	4842.4	3872.5	1177.8	470.2	381.6	295.3	243.4	223.3	223.3	224.5	223.3
40°	5194.4	3995.4	938.0	464.3	369.8	263.4	205.6	197.3	200.8	203.2	203.2
42.5°	5623.3	4256.4	776.2	457.2	356.8	249.3	186.7	183.1	189.0	191.4	191.4
45°	6104.1	4587.2	719.4	445.4	345.0	258.7	178.4	173.7	180.7	181.9	183.1
47.5°	6601.4	4910.9	712.4	432.4	333.1	272.9	176.0	165.4	173.7	174.8	176.0
50°	7104.7	5122.4	719.4	412.3	314.2	272.9	177.2	157.1	164.2	167.8	168.9
52.5°	7611.5	5219.2	714.7	368.6	281.2	256.4	177.2	150.0	157.1	159.5	159.5
55°	8102.9	5200.3	642.7	303.6	238.6	226.8	172.5	144.1	148.9	150.0	150.0
57.5°	8491.6	4936.9	509.2	236.3	193.7	189.0	157.1	137.0	140.6	139.4	139.4
60°	8694.8	4358.0	363.9	181.9	152.4	148.9	138.2	127.6	129.9	124.0	122.9
62.5°	8697.2	3592.5	243.4	144.1	121.7	118.1	118.1	114.6	112.2	100.4	96.9
65°	8511.7	2743.1	161.8	114.6	98.1	92.1	99.2	98.1	89.8	73.2	70.9
67.5°	8091.1	1798.0	122.9	89.8	75.6	72.1	79.2	82.7	76.8	61.4	60.2
70°	7226.4	1046.7	101.6	69.7	56.7	53.2	63.8	70.9	63.8	49.6	47.3
72.5°	6002.5	564.7	82.7	52.0	39.0	35.4	50.8	57.9	50.8	36.6	35.4
75°	3894.9	302.4	63.8	34.3	20.1	22.4	37.8	42.5	35.4	23.6	21.3
77.5°	1307.8	133.5	40.2	16.5	9.5	9.5	22.4	26.0	16.5	8.3	7.1
80°	291.8	55.5	16.5	7.1	3.5	3.5	4.7	4.7	2.4	0.0	0.0
82.5°	95.7	22.4	7.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	36.6	8.3	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	14.2	1.2	0.0	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)