

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: P943646

Luminaire Tested: **GALN-SB8B-722-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P943646
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB8B-722-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29500 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

Input Watts (W): 292.8
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

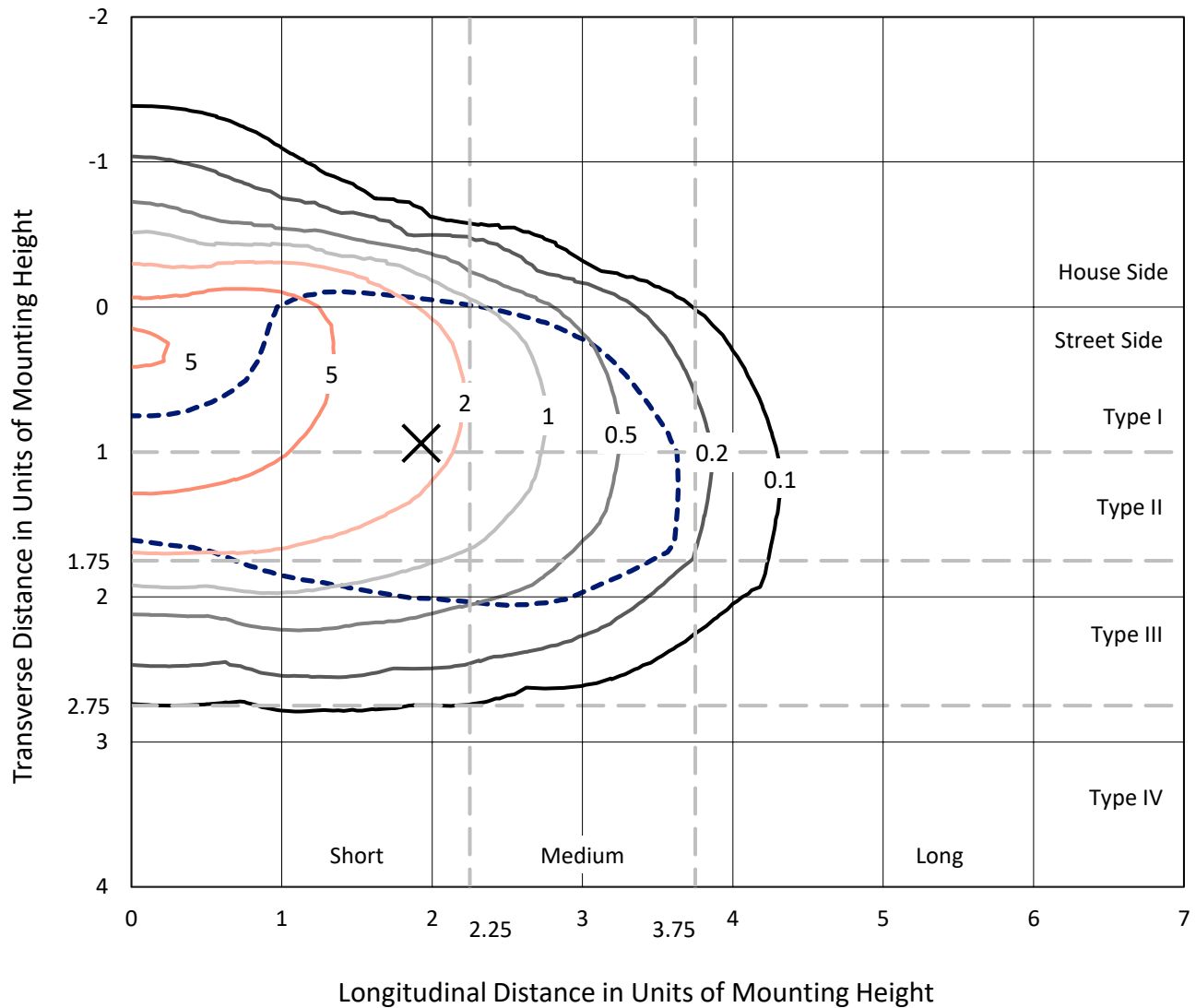


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd

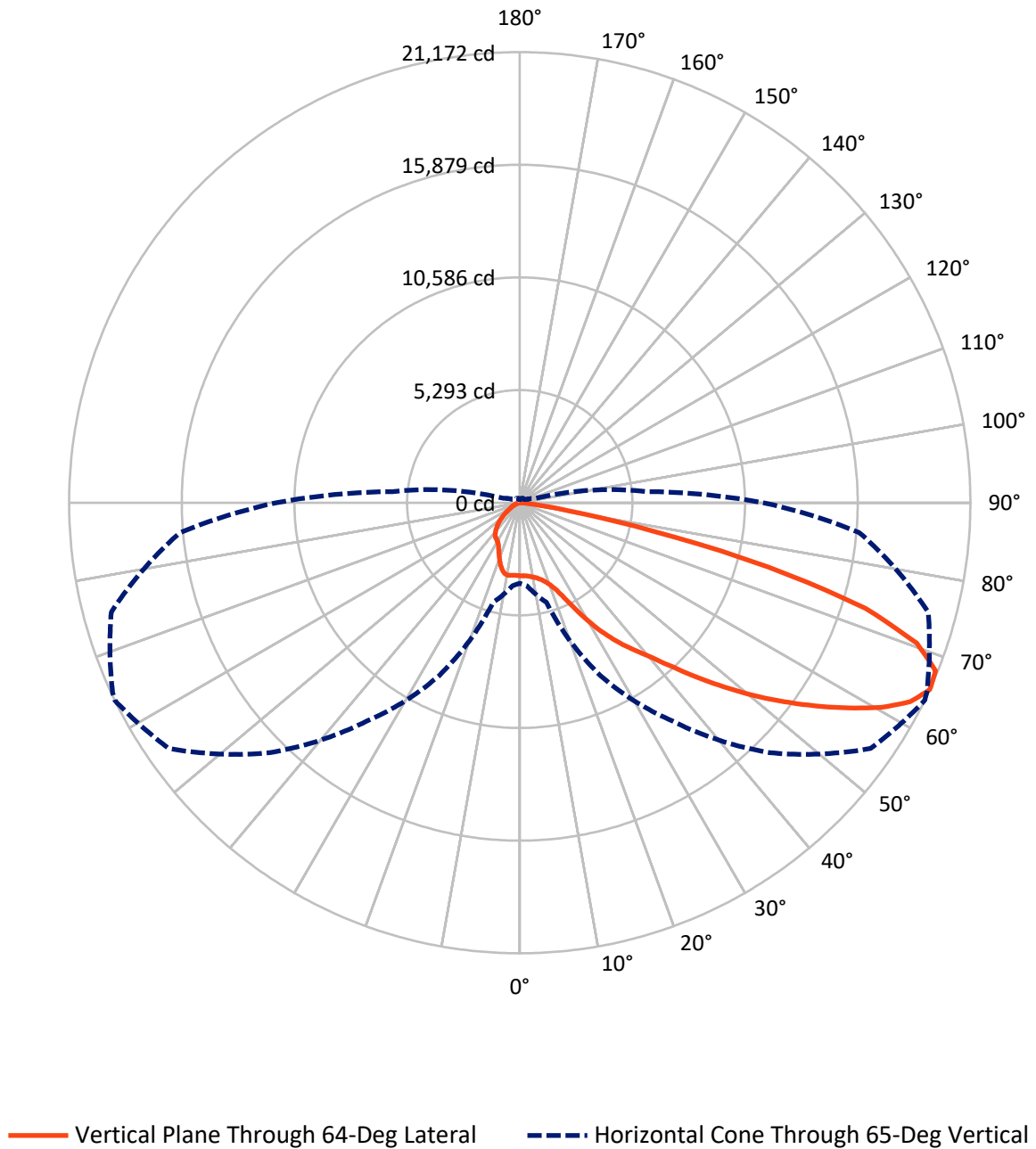


Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
Type III - Short - N/A

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Luminous Intensity Polar Plot



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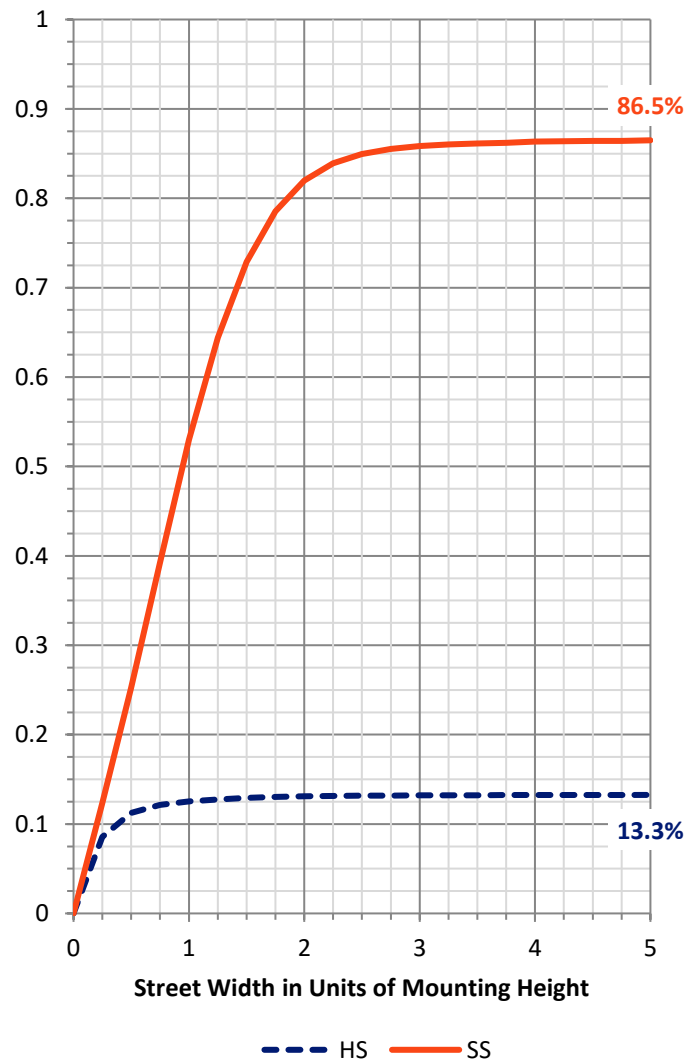
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3945.1	0.0	3945.1
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	25555.0	0.0	25555.0
	% Fixture	86.6	0.0	86.6
Total	Lumens	29500.0	0.0	29500.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.6	1.1
10°-20°	858.6	2.9
20°-30°	1627.0	5.5
30°-40°	3292.2	11.2
40°-50°	5608.3	19.0
50°-60°	7626.9	25.9
60°-70°	7162.0	24.3
70°-80°	2869.4	9.7
80°-90°	139.0	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°	29500.0	100.0
0°-180°	29500.0	100.0

Coefficient of Utilization



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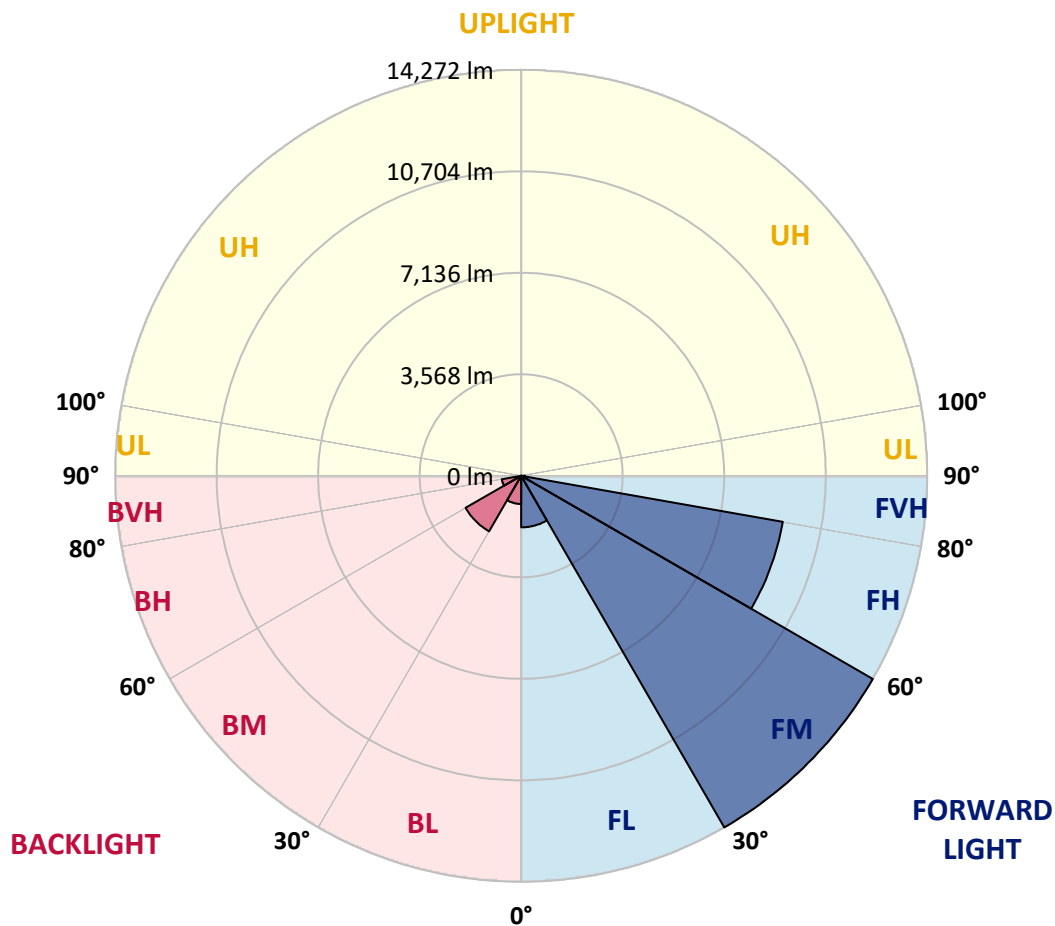
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1811.6	6.1			
FM	(30°-60°)	14272.1	48.4			
FH	(60°-80°)	9339.0	31.7			G4/12000
FVH	(80°-90°)	132.2	0.4			G2/225
BL	(0°-30°)	990.5	3.4	B2/1000		
BM	(30°-60°)	2255.4	7.6	B2/2500		
BH	(60°-80°)	692.4	2.3	B2/1000		G2/1000
BVH	(80°-90°)	6.8	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-G4

Type III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2
2.5°	3419.3	3443.0	3437.1	3431.2	3429.2	3433.1	3435.1	3433.1	3433.1	3433.1	3435.1
5°	3354.0	3373.8	3373.8	3387.6	3407.4	3431.2	3449.0	3452.9	3456.9	3462.8	3460.8
7.5°	3229.4	3245.3	3257.1	3302.6	3352.1	3415.3	3468.7	3496.4	3500.4	3522.1	3530.0
10°	3144.4	3164.2	3184.0	3231.4	3302.6	3397.5	3488.5	3555.7	3565.6	3617.1	3640.8
12.5°	3140.4	3160.2	3185.9	3237.4	3320.4	3421.3	3532.0	3628.9	3646.7	3721.9	3771.3
15°	3182.0	3205.7	3229.4	3292.7	3381.7	3504.3	3623.0	3743.6	3761.4	3868.2	3921.6
17.5°	3267.0	3298.7	3316.5	3379.7	3474.7	3611.1	3767.4	3905.8	3921.6	4046.2	4113.4
20°	3435.1	3472.7	3478.6	3530.0	3623.0	3769.3	3955.2	4127.3	4147.1	4289.4	4364.6
22.5°	3783.2	3836.6	3789.1	3814.8	3897.9	4044.2	4245.9	4463.5	4491.2	4653.3	4720.6
25°	4396.2	4471.4	4348.8	4305.3	4340.9	4493.1	4746.3	5021.2	5052.8	5183.3	5216.9
27.5°	5600.6	5503.7	5317.8	5135.9	5029.1	5116.1	5400.9	5741.0	5780.6	5907.1	5867.6
30°	6923.6	6838.6	6587.4	6184.0	5930.9	5917.0	6180.0	6559.7	6605.2	6725.9	6605.2
32.5°	8248.6	8167.5	7894.6	7398.2	6959.2	6741.7	6923.6	7344.8	7368.6	7445.7	7267.7
35°	9551.9	9468.8	9195.9	8687.6	8147.8	7653.4	7617.8	8092.4	8100.3	8181.4	7916.4
37.5°	10863.0	10793.8	10503.1	10004.7	9472.8	8790.5	8460.2	8800.4	8810.3	8889.4	8614.5
40°	11798.4	11828.1	11628.4	11242.7	10785.9	10040.3	9405.5	9553.8	9494.5	9627.0	9462.9
42.5°	12601.3	12660.7	12486.6	12292.8	12027.8	11371.3	10576.3	10550.6	10455.6	10526.8	10356.8
45°	13295.5	13344.9	13188.7	13143.2	13137.3	12676.5	11855.8	11701.5	11569.0	11555.2	11351.5
47.5°	13550.6	13645.5	13712.8	13865.0	14161.7	13967.9	13178.8	12939.5	12791.2	12682.4	12360.1
50°	13647.5	13748.4	13977.8	14420.7	15122.8	15205.9	14495.9	14226.9	14045.0	13847.2	13372.6
52.5°	13517.0	13696.9	14005.4	14751.0	15769.5	16198.6	15759.6	15524.3	15316.6	14994.3	14290.2
55°	12747.7	12927.6	13558.5	14747.1	16091.8	16894.7	16954.1	16849.3	16615.9	16107.6	15031.8
57.5°	11126.0	11393.0	12391.7	14244.7	16085.9	17494.0	18124.8	18200.0	17938.9	17211.2	15615.2
60°	8879.5	9241.4	10459.6	13131.3	15589.5	17818.3	19151.2	19526.9	19250.1	18298.8	16087.9
62.5°	6195.9	6615.1	7768.1	11387.1	14454.4	17584.9	19900.7	20594.8	20385.2	19271.8	16269.8
65°	3779.2	3913.7	4843.2	8960.6	12524.2	16608.0	20132.1	21172.3	21103.1	19867.1	16000.9
67.5°	2517.5	2630.2	2897.2	6144.4	9721.9	14656.1	19578.4	21071.5	21091.2	19770.2	15016.0
70°	1516.8	1613.7	1787.8	3573.5	6300.7	11600.7	17863.8	19786.0	19900.7	18474.8	13149.1
72.5°	624.9	690.2	848.4	1619.7	3263.1	7362.6	14225.0	16987.7	17254.7	15534.1	10091.8
75°	354.0	387.6	498.4	812.8	1416.0	3431.2	8616.5	12059.5	12453.0	10706.8	6071.3
77.5°	235.3	251.2	322.4	526.0	797.0	1170.7	3682.3	6282.9	7034.4	5847.8	2628.2
80°	158.2	172.1	221.5	352.0	518.1	502.3	1172.7	2327.6	2863.6	2009.3	640.7
82.5°	106.8	108.8	158.2	231.4	328.3	243.2	346.1	723.8	909.7	581.4	243.2
85°	61.3	59.3	116.7	134.5	146.3	100.9	104.8	217.5	284.8	245.2	138.4
87.5°	7.9	11.9	45.5	35.6	19.8	21.8	21.8	37.6	55.4	59.3	29.7
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°	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2	3431.2
2.5°	3435.1	3433.1	3427.2	3421.3	3407.4	3399.5	3403.5	3399.5	3397.5	3399.5	3407.4
5°	3460.8	3454.9	3439.1	3419.3	3391.6	3358.0	3336.2	3304.6	3274.9	3257.1	3261.1
7.5°	3530.0	3524.1	3502.4	3447.0	3358.0	3217.6	3089.0	2976.3	2891.3	2841.8	2843.8
10°	3640.8	3630.9	3597.3	3474.7	3241.3	2934.8	2679.7	2468.1	2329.6	2264.4	2258.4
12.5°	3771.3	3759.4	3700.1	3449.0	3019.8	2541.2	2189.2	1953.9	1825.3	1768.0	1762.1
15°	3925.6	3909.7	3793.1	3326.3	2697.5	2106.2	1783.8	1607.8	1524.7	1473.3	1475.3
17.5°	4117.4	4089.7	3862.3	3142.4	2347.4	1773.9	1534.6	1402.1	1329.0	1279.5	1275.6
20°	4366.6	4321.1	3917.6	2922.9	2025.1	1564.3	1366.5	1255.8	1200.4	1156.9	1149.0
22.5°	4714.6	4649.4	3984.9	2685.6	1797.6	1419.9	1241.9	1160.9	1115.4	1065.9	1058.0
25°	5145.7	5068.6	4067.9	2466.1	1641.4	1295.3	1151.0	1083.7	1030.3	973.0	967.1
27.5°	5748.9	5610.5	4166.8	2286.1	1506.9	1188.5	1067.9	992.8	931.5	884.0	874.1
30°	6421.3	6193.9	4253.8	2177.4	1384.3	1089.7	959.1	884.0	826.6	793.0	787.1
32.5°	7058.1	6749.6	4311.2	2129.9	1273.6	976.9	840.5	759.4	715.9	706.0	711.9
35°	7659.3	7251.9	4305.3	2084.4	1174.7	864.2	723.8	640.7	607.1	613.1	613.1
37.5°	8351.5	7787.8	4263.7	2013.2	1093.6	761.4	622.9	549.8	520.1	522.1	530.0
40°	9156.3	8406.8	4238.0	1878.7	1004.6	666.5	539.9	480.6	458.8	450.9	448.9
42.5°	10014.6	9006.0	4242.0	1726.5	893.9	581.4	482.5	433.1	413.3	407.4	405.4
45°	10876.9	9577.6	4247.9	1568.2	777.2	516.2	441.0	399.5	387.6	379.7	379.7
47.5°	11687.7	10064.1	4137.2	1398.2	662.5	466.7	407.4	379.7	369.8	359.9	359.9
50°	12443.1	10388.4	3870.2	1200.4	571.5	427.2	381.7	361.9	352.0	342.1	342.1
52.5°	13030.5	10439.8	3429.2	996.7	508.2	397.5	365.9	348.1	336.2	326.3	324.3
55°	13291.5	10117.5	2802.3	806.9	458.8	371.8	350.0	332.2	318.4	308.5	306.5
57.5°	13224.3	9439.1	2185.3	648.7	411.3	346.1	330.3	318.4	302.6	286.8	284.8
60°	12894.0	8531.4	1647.4	539.9	367.8	318.4	308.5	298.6	276.9	253.1	249.2
62.5°	12322.5	7390.3	1174.7	446.9	320.4	286.8	282.8	274.9	243.2	199.7	195.8
65°	11448.4	6004.0	791.0	371.8	274.9	251.2	253.1	239.3	197.8	148.3	144.4
67.5°	10170.9	4390.3	506.3	304.6	229.4	209.6	211.6	203.7	168.1	126.6	120.6
70°	8543.3	2907.1	330.3	231.4	183.9	162.2	174.0	176.0	142.4	102.8	98.9
72.5°	6263.1	1716.6	231.4	172.1	134.5	112.7	142.4	146.3	114.7	77.1	73.2
75°	3569.6	814.8	174.0	124.6	83.1	79.1	110.7	110.7	79.1	51.4	47.5
77.5°	1499.0	340.1	122.6	81.1	47.5	45.5	75.1	69.2	39.6	23.7	23.7
80°	433.1	152.3	65.3	39.6	19.8	17.8	29.7	21.8	9.9	4.0	4.0
82.5°	170.1	67.2	25.7	15.8	7.9	7.9	4.0	0.0	0.0	0.0	0.0
85°	100.9	27.7	11.9	5.9	2.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	25.7	5.9	4.0	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)