

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: P950580

Luminaire Tested: **GALN-SB5A-727-U-T3R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950580
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-SB5A-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2700K, 350mA 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: 17498 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 141.7
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

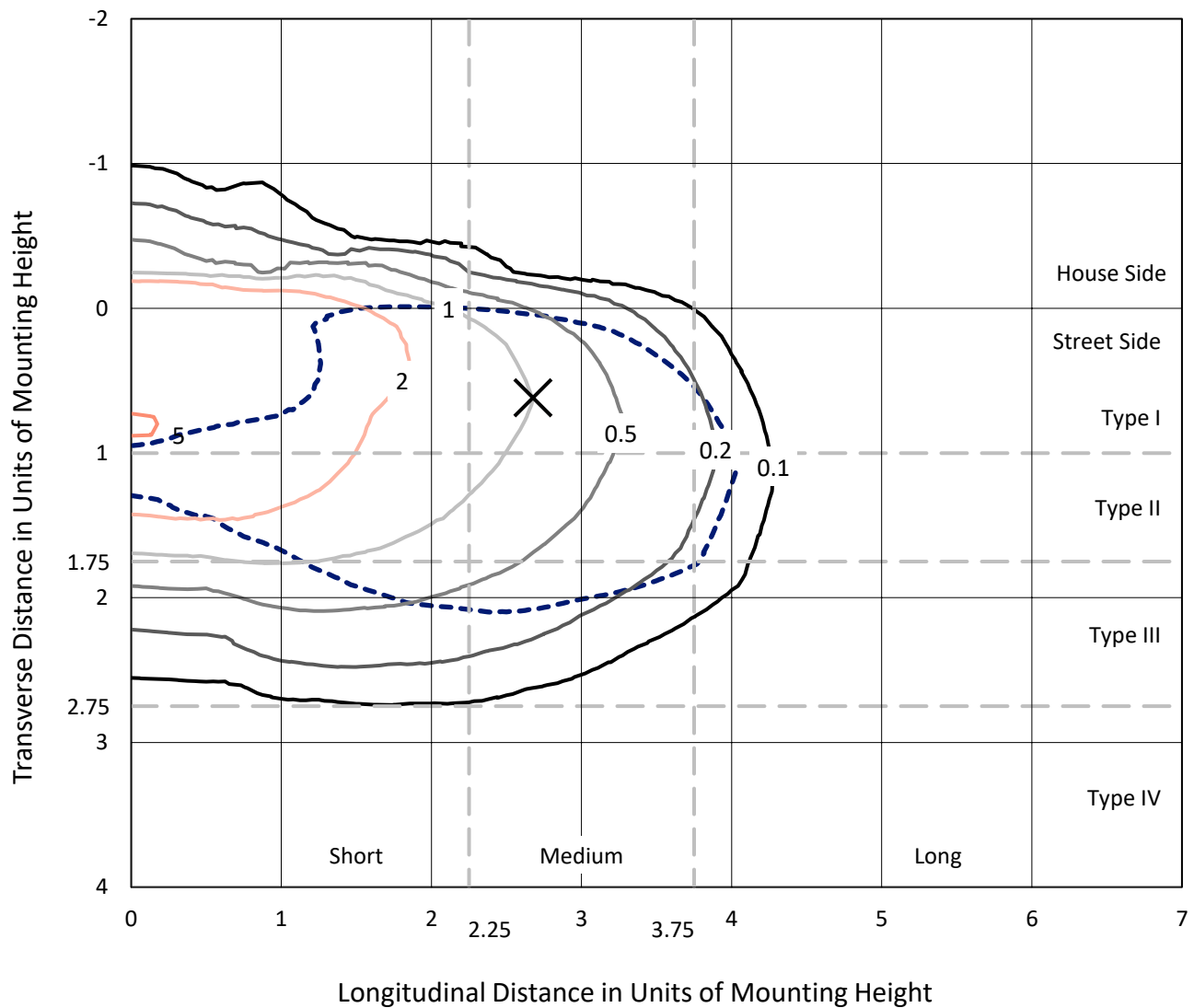


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Iso-Footcandle Lines of Horizontal Illumination

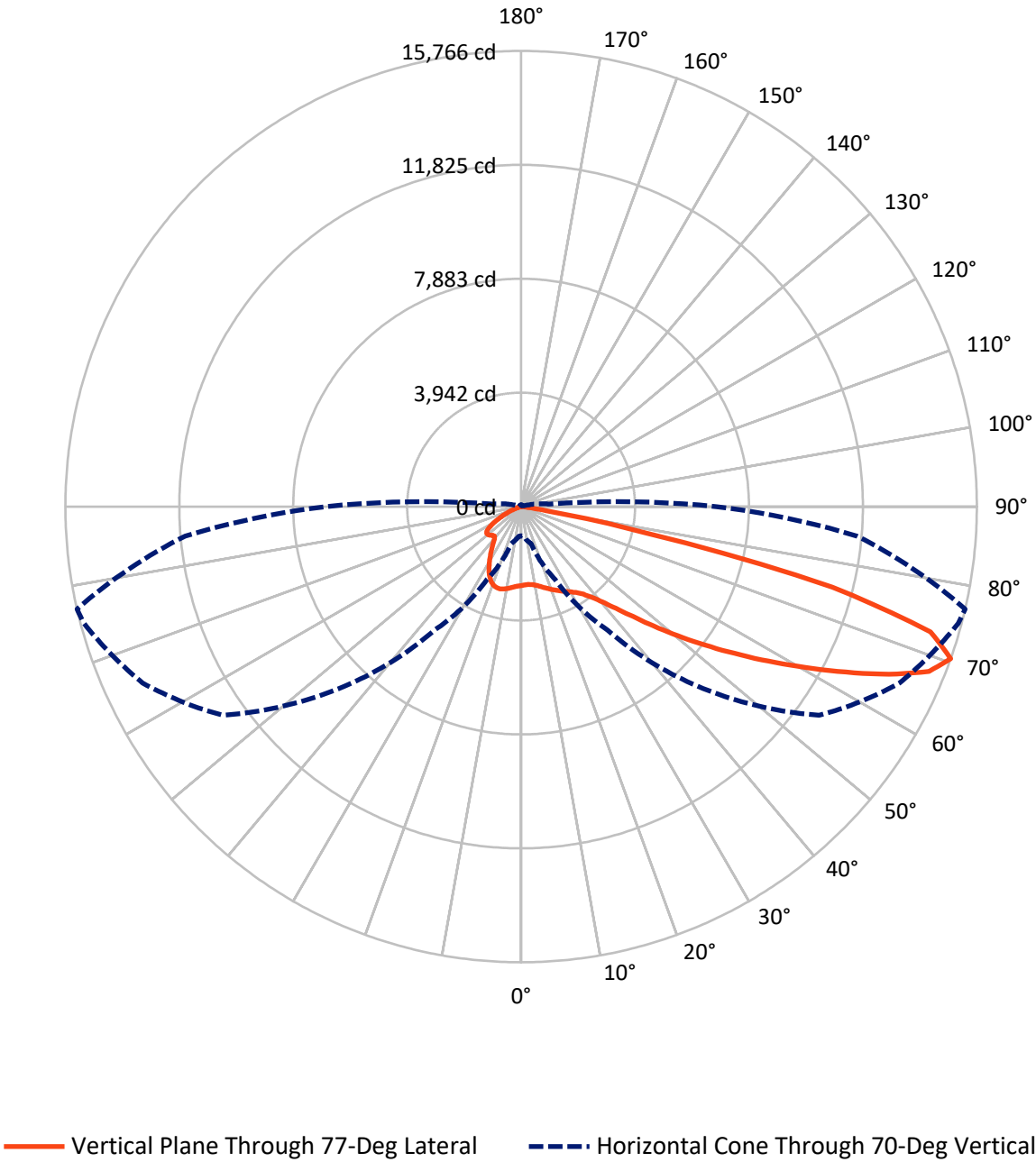
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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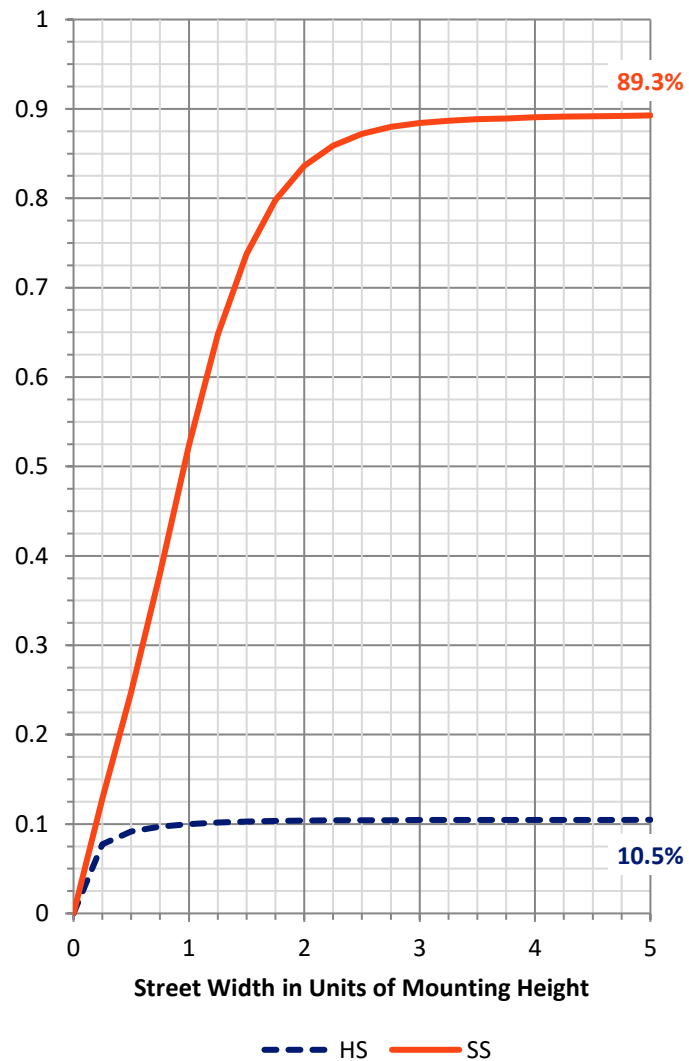
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1844.5	0.0	1844.5
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	15653.5	0.0	15653.5
	% Fixture	89.5	0.0	89.5
Total	Lumens	17498.0	0.0	17498.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.2	1.3
10°-20°	558.4	3.2
20°-30°	863.7	4.9
30°-40°	1567.2	9.0
40°-50°	2958.3	16.9
50°-60°	4274.5	24.4
60°-70°	4550.1	26.0
70°-80°	2411.3	13.8
80°-90°	79.2	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°	17498.0	100.0
0°-180°	17498.0	100.0

Coefficient of Utilization



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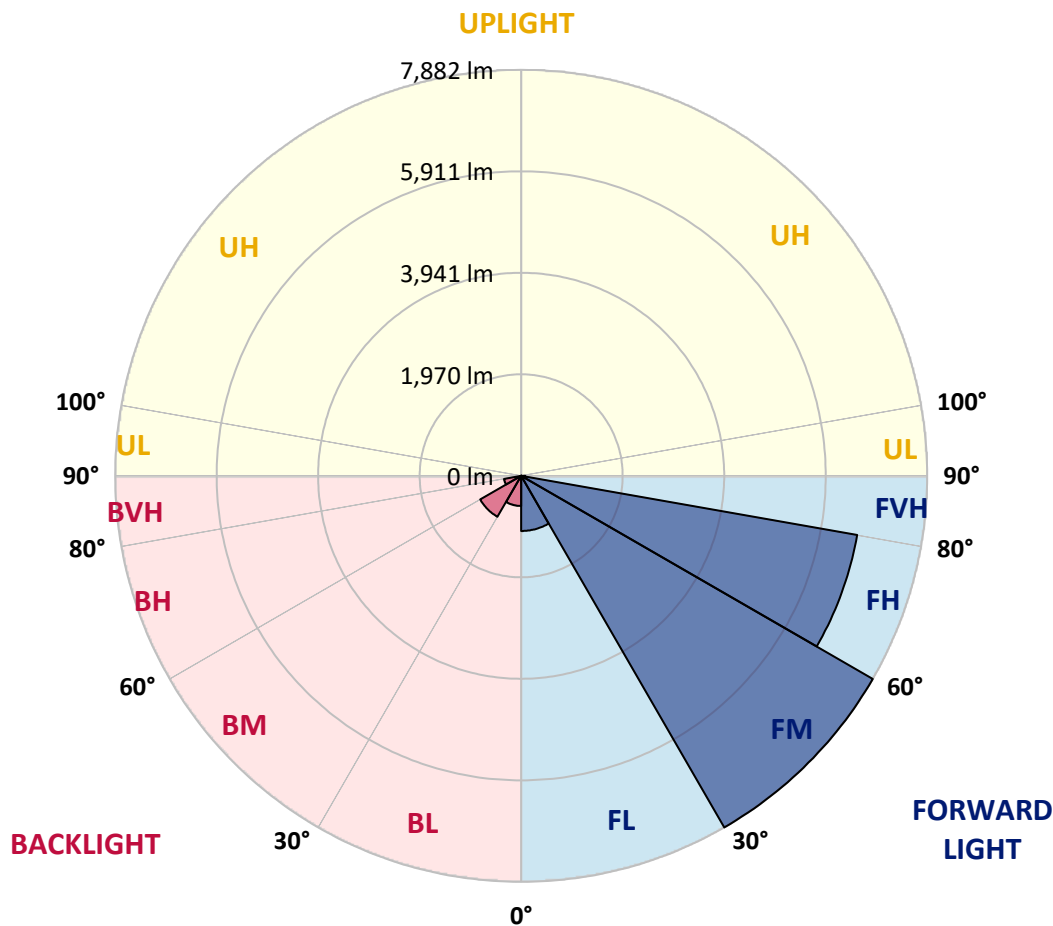
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1071.3	6.1			
FM	(30°-60°)	7881.9	45.0			
FH	(60°-80°)	6623.2	37.9			G3/7500
FVH	(80°-90°)	77.0	0.4			G1/100
BL	(0°-30°)	586.0	3.3	B2/1000		
BM	(30°-60°)	918.2	5.2	B1/1000		
BH	(60°-80°)	338.1	1.9	B1/500		G1/500
BVH	(80°-90°)	2.1	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4
2.5°	2562.5	2585.7	2582.4	2597.9	2603.4	2625.5	2647.6	2677.4	2710.6	2709.5	2731.6
5°	2417.8	2441.0	2446.5	2467.5	2494.0	2528.3	2573.6	2633.2	2695.1	2705.1	2749.3
7.5°	2246.5	2270.8	2285.2	2327.1	2375.8	2446.5	2520.5	2607.8	2710.6	2725.0	2810.0
10°	2075.2	2097.3	2116.1	2175.8	2253.1	2358.1	2478.5	2604.5	2742.6	2763.6	2884.1
12.5°	1969.1	1990.1	2011.1	2063.1	2159.2	2287.4	2450.9	2620.0	2795.7	2825.5	2984.6
15°	1931.6	1950.3	1966.9	2013.3	2102.8	2248.7	2445.4	2652.0	2863.1	2902.9	3106.2
17.5°	1937.1	1947.0	1958.1	1993.4	2080.7	2231.0	2455.3	2707.3	2942.6	2978.0	3227.7
20°	1969.1	1974.7	1975.8	2000.1	2077.4	2228.8	2475.2	2760.3	3017.8	3065.3	3348.2
22.5°	2010.0	2012.2	2010.0	2026.6	2098.4	2245.4	2501.7	2824.4	3101.8	3146.0	3469.7
25°	2201.2	2159.2	2106.1	2074.1	2133.8	2277.4	2541.5	2910.6	3193.5	3236.6	3588.0
27.5°	2794.6	2674.1	2484.1	2270.8	2206.7	2323.8	2596.8	2997.9	3286.3	3325.0	3715.0
30°	3758.1	3600.1	3277.5	2796.8	2441.0	2421.1	2668.6	3085.2	3384.6	3426.6	3851.0
32.5°	4723.9	4685.2	4312.8	3647.6	2968.1	2637.7	2787.9	3203.4	3515.0	3548.2	4034.4
35°	5700.7	5622.3	5317.3	4659.8	3780.2	3078.6	2986.8	3358.1	3686.3	3723.9	4301.8
37.5°	6448.8	6401.3	6212.4	5670.9	4743.8	3759.2	3327.2	3597.9	3934.9	3976.9	4644.4
40°	7109.6	7087.5	7023.4	6666.5	5821.2	4649.9	3856.5	3969.2	4279.7	4329.4	5064.3
42.5°	7629.0	7680.9	7717.4	7617.9	6931.7	5666.5	4568.1	4490.8	4760.4	4811.2	5599.1
45°	8160.5	8178.2	8325.1	8468.8	8034.5	6729.5	5370.3	5101.8	5358.2	5421.2	6240.0
47.5°	8501.9	8572.7	8831.2	9084.3	8961.6	7783.7	6232.3	5823.4	6051.0	6169.3	6958.2
50°	8527.4	8661.1	9016.9	9457.8	9636.8	8787.0	7169.3	6645.5	6887.5	7017.9	7725.1
52.5°	8104.1	8311.9	8863.3	9508.6	10001.4	9636.8	8138.4	7467.7	7778.2	7948.3	8520.7
55°	6213.5	6485.3	8285.4	9232.3	10015.8	10281.0	9082.1	8324.0	8770.5	8962.7	9380.4
57.5°	5413.4	5550.5	6514.0	8752.8	9749.5	10540.7	9935.1	9139.5	9850.0	10088.7	10192.6
60°	4504.0	4684.1	5463.2	7968.2	9388.2	10566.1	10688.8	10191.5	11020.3	11288.8	10937.4
62.5°	3060.9	3256.5	4031.1	6620.1	8894.2	10553.9	11306.5	11274.4	12320.8	12609.3	11568.3
65°	1896.2	2018.9	2529.4	5405.7	8203.6	10567.2	11952.9	12589.4	13693.3	13986.1	12056.8
67.5°	1498.4	1554.7	1821.1	4150.4	7013.5	10268.8	12598.2	13825.9	14985.0	15217.1	12205.9
70°	1006.7	1040.9	1324.9	2782.4	5217.9	8892.0	12586.1	14446.9	15650.2	15766.3	11662.3
72.5°	530.4	556.9	774.6	1288.4	3151.5	6320.7	10609.2	13704.3	14988.3	14813.7	9968.3
75°	265.2	309.4	521.6	654.2	1345.9	3525.0	6588.1	10804.8	11797.1	11120.8	6395.8
77.5°	201.1	243.1	431.0	431.0	468.5	1186.8	2790.1	5893.0	5435.5	4526.1	1877.4
80°	128.2	165.8	376.8	326.0	195.6	301.7	727.1	1650.9	1154.7	878.5	341.4
82.5°	75.1	108.3	313.8	215.5	109.4	111.6	205.5	351.4	299.5	233.2	105.0
85°	29.8	70.7	215.5	85.1	43.1	27.6	61.9	75.1	61.9	46.4	26.5
87.5°	0.0	16.6	37.6	0.0	3.3	2.2	4.4	5.5	5.5	4.4	8.8
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°	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4	2729.4
2.5°	2741.5	2743.7	2750.4	2751.5	2736.0	2716.1	2708.4	2705.1	2691.8	2690.7	2692.9
5°	2774.7	2784.6	2774.7	2745.9	2677.4	2581.3	2508.4	2448.7	2394.6	2378.0	2368.0
7.5°	2841.0	2850.9	2821.1	2708.4	2536.0	2344.8	2172.4	2050.9	1941.5	1900.6	1884.0
10°	2936.0	2949.3	2855.3	2627.7	2322.7	2015.5	1723.8	1518.3	1358.1	1292.9	1265.2
12.5°	3055.3	3060.9	2874.1	2505.1	2045.4	1606.7	1193.4	973.5	831.0	777.9	761.4
15°	3186.8	3179.1	2876.3	2338.2	1667.5	1135.9	779.0	639.8	582.3	564.7	564.7
17.5°	3325.0	3292.9	2832.1	2097.3	1253.1	776.8	577.9	544.8	534.8	530.4	529.3
20°	3460.9	3389.1	2751.5	1782.4	899.5	580.1	524.9	514.9	509.4	507.2	505.0
22.5°	3584.6	3462.0	2613.3	1416.6	653.1	512.7	496.1	487.3	477.4	472.9	471.8
25°	3705.1	3504.0	2418.9	1075.2	522.7	479.6	466.3	449.7	436.5	431.0	428.7
27.5°	3822.2	3530.5	2175.8	795.6	466.3	448.6	424.3	401.1	391.2	389.0	386.8
30°	3947.1	3539.3	1899.5	593.4	432.1	410.0	374.6	348.1	342.6	343.7	343.7
32.5°	4099.6	3552.6	1621.0	486.2	403.3	363.5	321.6	293.9	289.5	293.9	292.8
35°	4281.9	3579.1	1352.5	447.5	377.9	316.0	270.7	247.5	243.1	246.4	245.3
37.5°	4529.4	3622.2	1101.7	439.8	356.9	276.3	227.6	208.8	208.8	210.0	208.8
40°	4858.7	3737.1	877.4	434.3	345.9	246.4	192.3	184.5	187.9	190.1	190.1
42.5°	5259.8	3981.3	726.0	427.6	333.7	233.2	174.6	171.3	176.8	179.0	179.0
45°	5709.6	4290.7	673.0	416.6	322.7	242.0	166.9	162.4	169.1	170.2	171.3
47.5°	6174.8	4593.5	666.3	404.4	311.6	255.3	164.6	154.7	162.4	163.5	164.6
50°	6645.5	4791.3	673.0	385.6	293.9	255.3	165.8	147.0	153.6	156.9	158.0
52.5°	7119.6	4881.9	668.5	344.8	263.0	239.8	165.8	140.3	147.0	149.2	149.2
55°	7579.3	4864.2	601.1	284.0	223.2	212.2	161.3	134.8	139.2	140.3	140.3
57.5°	7942.8	4617.8	476.3	221.0	181.2	176.8	147.0	128.2	131.5	130.4	130.4
60°	8132.9	4076.4	340.3	170.2	142.5	139.2	129.3	119.3	121.6	116.0	114.9
62.5°	8135.1	3360.3	227.6	134.8	113.8	110.5	110.5	107.2	105.0	93.9	90.6
65°	7961.6	2565.8	151.4	107.2	91.7	86.2	92.8	91.7	84.0	68.5	66.3
67.5°	7568.2	1681.8	114.9	84.0	70.7	67.4	74.0	77.4	71.8	57.5	56.4
70°	6759.3	979.0	95.0	65.2	53.0	49.7	59.7	66.3	59.7	46.4	44.2
72.5°	5614.6	528.2	77.4	48.6	36.5	33.2	47.5	54.1	47.5	34.3	33.2
75°	3643.2	282.9	59.7	32.0	18.8	21.0	35.4	39.8	33.2	22.1	19.9
77.5°	1223.2	124.9	37.6	15.5	8.8	8.8	21.0	24.3	15.5	7.7	6.6
80°	272.9	51.9	15.5	6.6	3.3	3.3	4.4	4.4	2.2	0.0	0.0
82.5°	89.5	21.0	6.6	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	34.3	7.7	2.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	13.3	1.1	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)