

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: P948770

Luminaire Tested: **GALN-SB3D-722-U-T2R-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P948770
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB3D-722-U-T2R-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21355 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G3

Input Watts (W): 218.1
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

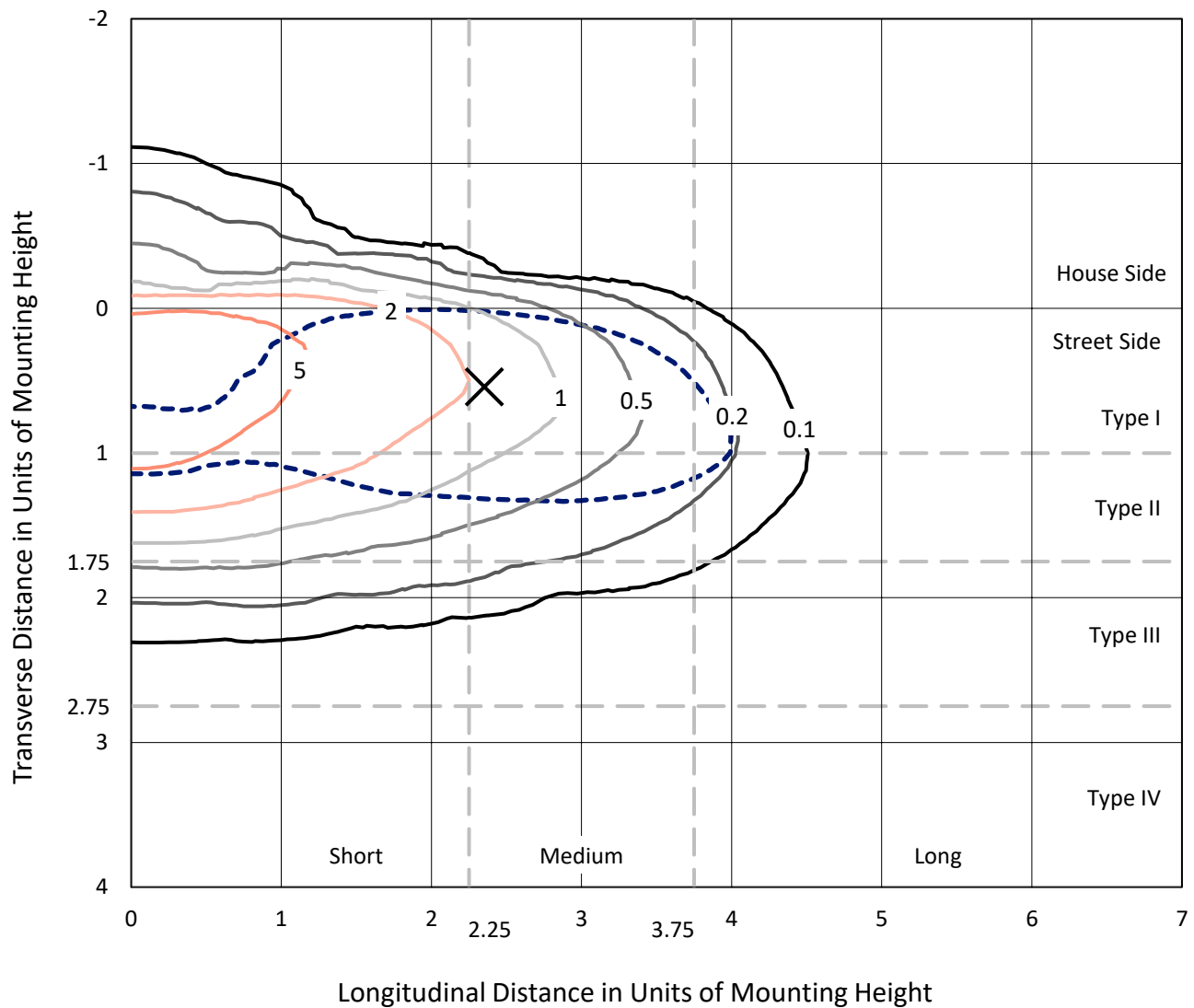


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Iso-Footcandle Lines of Horizontal Illumination

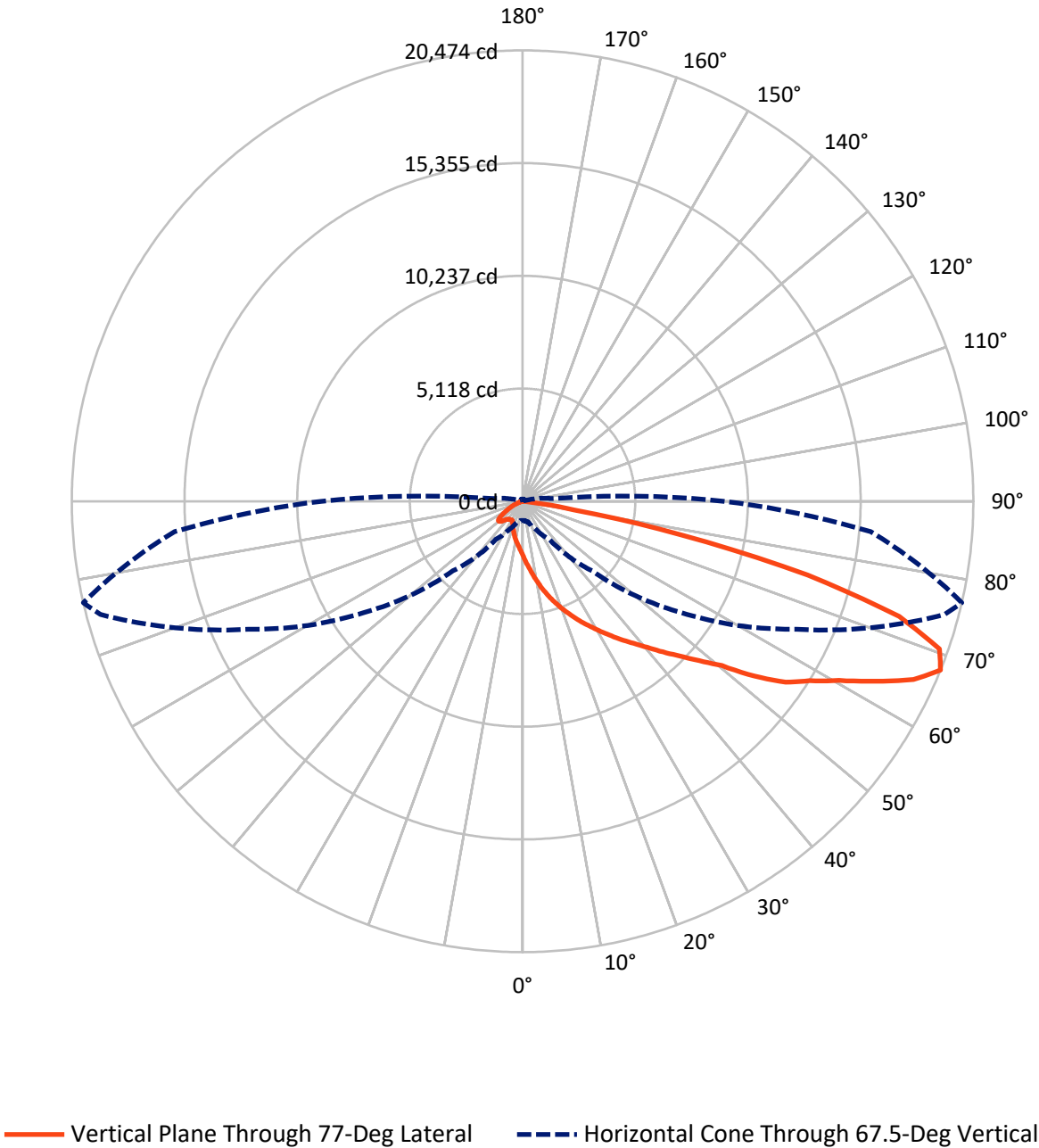
✕ Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



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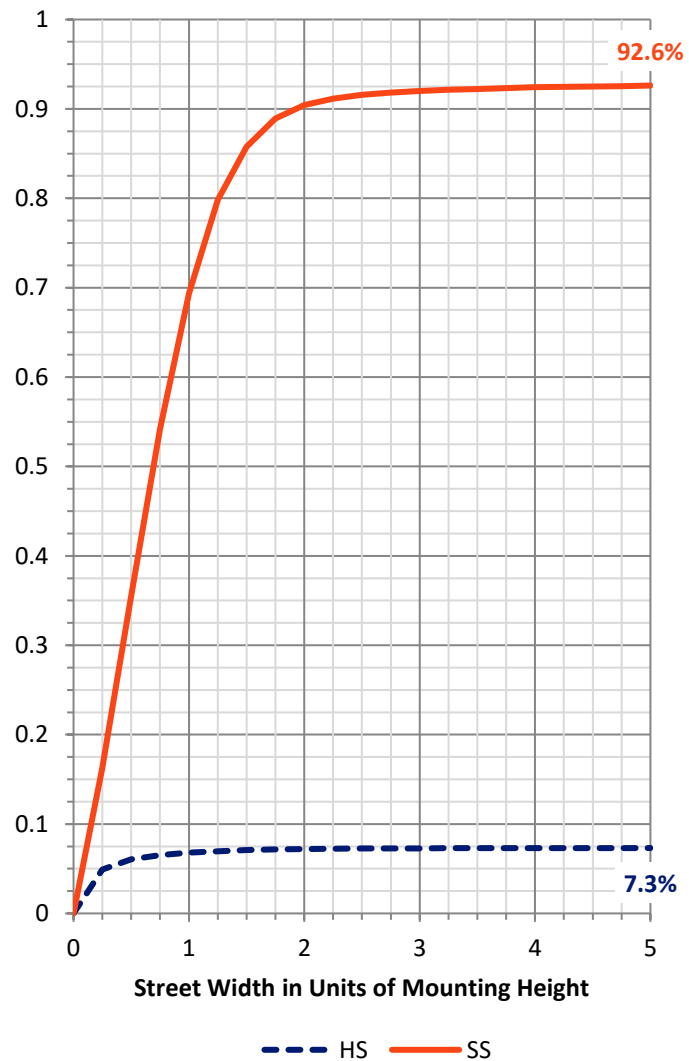
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1571.1	0.0	1571.1
	% Fixture	7.4	0.0	7.4
Street Side	Lumens	19783.9	0.0	19783.9
	% Fixture	92.6	0.0	92.6
Total	Lumens	21355.0	0.0	21355.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.3	1.2
10°-20°	880.2	4.1
20°-30°	1698.5	8.0
30°-40°	2948.7	13.8
40°-50°	4281.3	20.0
50°-60°	4916.6	23.0
60°-70°	4268.5	20.0
70°-80°	2010.5	9.4
80°-90°	99.4	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°	21355.0	100.0
0°-180°	21355.0	100.0

Coefficient of Utilization



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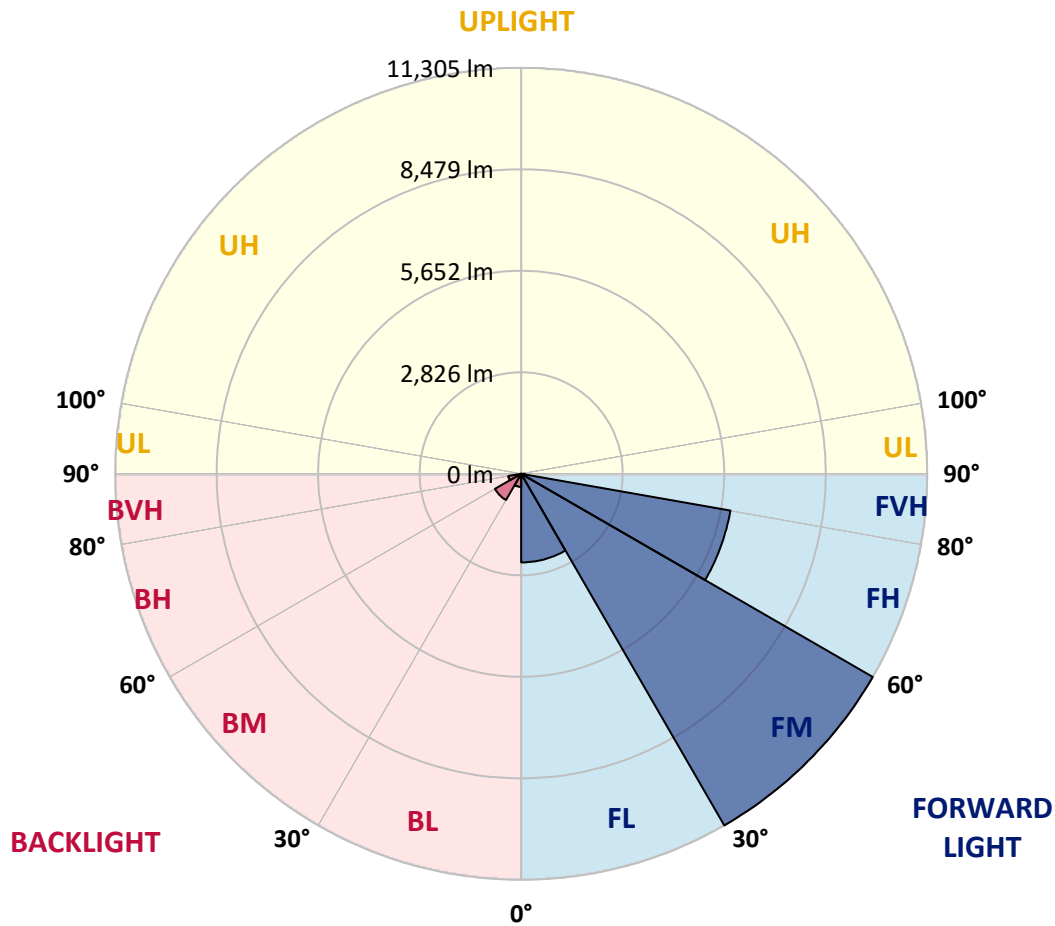
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2466.3	11.5			
FM	(30°-60°)	11304.8	52.9			
FH	(60°-80°)	5915.3	27.7			G3/7500
FVH	(80°-90°)	97.6	0.5			G1/100
BL	(0°-30°)	363.7	1.7	B1/500		
BM	(30°-60°)	841.8	3.9	B1/1000		
BH	(60°-80°)	363.7	1.7	B1/500		G1/500
BVH	(80°-90°)	1.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5
2.5°	3409.4	3430.6	3400.1	3341.7	3254.2	3197.2	3058.0	2926.7	2780.8	2734.4	2588.5
5°	4156.0	4174.5	4140.0	4076.4	3959.7	3848.3	3665.3	3390.8	3105.7	3014.2	2755.6
7.5°	4708.9	4719.5	4706.3	4647.9	4536.5	4410.6	4206.4	3881.5	3458.4	3357.7	2961.2
10°	5106.8	5141.2	5137.3	5114.7	5040.5	4938.4	4720.9	4350.9	3853.6	3723.7	3193.2
12.5°	5370.7	5409.1	5431.7	5482.0	5478.1	5413.1	5222.1	4830.9	4247.5	4095.0	3454.5
15°	5447.6	5488.7	5574.9	5691.6	5795.0	5828.2	5694.2	5301.7	4681.1	4486.2	3722.3
17.5°	5403.8	5467.5	5570.9	5755.2	5982.0	6131.8	6117.2	5756.5	5074.9	4852.2	3984.9
20°	5500.6	5561.6	5642.5	5797.7	6061.5	6333.4	6442.1	6191.5	5466.1	5232.7	4260.7
22.5°	6036.4	6025.7	6033.7	6058.9	6216.7	6485.9	6710.0	6586.7	5853.4	5614.7	4552.5
25°	6885.0	6837.3	6756.4	6619.8	6580.0	6710.0	6943.4	6936.8	6261.8	6005.9	4850.8
27.5°	7858.4	7850.4	7660.8	7331.9	7146.3	7095.9	7207.3	7277.6	6666.2	6393.1	5150.5
30°	8790.6	8811.9	8555.9	8189.9	7849.1	7651.5	7550.7	7601.1	7077.3	6810.8	5459.5
32.5°	9602.2	9624.7	9346.3	8917.9	8496.2	8257.5	8045.4	7920.7	7525.5	7235.1	5799.0
35°	10287.8	10310.3	9990.7	9517.3	9067.8	8851.6	8611.6	8270.8	7976.4	7705.9	6176.9
37.5°	10900.4	10893.8	10465.5	9988.1	9546.5	9375.4	9249.5	8701.8	8440.6	8179.3	6596.0
40°	11262.5	11290.3	10924.3	10397.9	9969.5	9844.9	9836.9	9236.2	8976.3	8723.0	7054.8
42.5°	11368.6	11417.6	11152.4	10720.1	10331.6	10196.3	10404.5	9814.4	9599.6	9352.9	7573.3
45°	11177.6	11225.3	11104.7	10805.0	10578.2	10490.7	10892.5	10413.8	10265.2	10021.2	8158.1
47.5°	10620.6	10680.3	10709.5	10645.8	10643.2	10732.0	11330.1	11045.0	11055.6	10806.3	8835.7
50°	9542.5	9643.3	9911.2	10136.6	10485.4	10923.0	11755.8	11729.2	11946.7	11731.9	9718.9
52.5°	7582.6	7725.8	8648.7	9265.4	10049.1	10887.2	12223.9	12827.2	13510.2	13195.9	10964.1
55°	6093.4	6093.4	6843.9	7997.6	9197.7	10651.1	12428.1	13540.7	14575.0	14500.8	11840.6
57.5°	4967.5	5027.2	5505.9	6525.7	7965.8	10088.9	12554.1	13988.9	15433.0	15378.6	12697.3
60°	3065.9	3194.5	4098.9	5105.4	6564.1	9087.7	12474.5	14442.4	16474.0	16517.8	13729.0
62.5°	1726.6	1774.3	2177.4	3673.3	5104.1	7741.7	11865.8	14695.7	17805.4	17991.0	14792.5
65°	1192.2	1216.0	1371.2	2286.2	3538.0	6163.7	10676.3	14537.9	19139.4	19514.7	15694.3
67.5°	865.9	877.9	974.7	1396.4	2099.2	4468.9	8811.9	13742.2	19846.2	20473.5	15866.6
70°	665.7	673.7	743.9	917.7	1239.9	2758.3	6399.7	12160.2	19334.4	20083.6	14983.5
72.5°	541.0	549.0	603.4	679.0	822.2	1631.1	3878.8	9875.4	17074.7	17883.6	12755.6
75°	456.2	466.8	515.8	564.9	644.5	1047.6	1819.4	6877.1	12840.5	13370.9	8870.2
77.5°	253.3	233.4	419.0	468.1	543.7	663.0	851.3	4047.2	7191.4	7338.6	3935.8
80°	157.8	163.1	332.8	376.6	417.7	334.2	389.9	1558.2	2493.0	2368.4	762.5
82.5°	9.3	21.2	255.9	271.8	286.4	143.2	147.2	529.1	600.7	551.7	135.3
85°	0.0	0.0	116.7	94.2	99.5	41.1	42.4	123.3	80.9	87.5	26.5
87.5°	0.0	0.0	0.0	2.7	0.0	4.0	8.0	10.6	4.0	5.3	9.3
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°	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5	2462.5
2.5°	2495.7	2402.9	2214.6	2030.2	1880.4	1741.2	1641.7	1547.5	1499.8	1497.2	1494.5
5°	2571.3	2376.3	1999.7	1666.9	1399.0	1184.2	1045.0	945.5	895.1	877.9	875.2
7.5°	2677.4	2384.3	1811.4	1348.6	1033.0	848.7	769.1	737.3	726.7	714.8	712.1
10°	2811.3	2402.9	1643.0	1086.1	814.2	721.4	689.6	676.3	668.3	660.4	657.7
12.5°	2961.2	2420.1	1475.9	901.7	716.1	668.3	645.8	629.9	619.3	610.0	607.3
15°	3107.0	2430.7	1302.2	773.1	665.7	627.2	603.4	586.1	571.5	560.9	559.6
17.5°	3251.6	2445.3	1139.1	696.2	624.6	586.1	562.3	541.0	529.1	517.2	515.8
20°	3412.0	2442.7	985.3	641.8	583.5	545.0	519.8	499.9	488.0	474.7	473.4
22.5°	3560.5	2429.4	850.0	595.4	541.0	503.9	476.1	456.2	444.2	433.6	432.3
25°	3731.6	2418.8	737.3	553.0	501.3	464.1	433.6	415.1	401.8	392.5	391.2
27.5°	3896.0	2402.9	655.1	514.5	462.8	427.0	397.8	376.6	364.7	358.0	358.0
30°	4057.8	2398.9	624.6	477.4	428.3	392.5	363.3	343.5	334.2	331.5	330.2
32.5°	4252.8	2409.5	637.8	464.1	396.5	360.7	332.8	318.3	309.0	309.0	309.0
35°	4461.0	2406.8	657.7	476.1	375.3	328.9	307.7	298.4	289.1	289.1	289.1
37.5°	4722.2	2410.8	673.7	496.0	367.3	302.3	290.4	278.5	273.2	273.2	273.2
40°	5112.1	2542.1	665.7	513.2	364.7	283.8	259.9	255.9	252.0	252.0	252.0
42.5°	5589.5	2827.2	676.3	514.5	363.3	270.5	238.7	246.7	237.4	236.0	234.7
45°	6111.9	3138.9	743.9	486.7	362.0	263.9	228.1	237.4	222.8	222.8	222.8
47.5°	6630.4	3447.8	812.9	446.9	358.0	262.6	218.8	213.5	209.5	210.8	210.8
50°	7345.2	3699.8	839.4	392.5	348.8	259.9	201.6	202.9	200.2	202.9	202.9
52.5°	8123.6	3752.8	807.6	331.5	322.2	252.0	189.6	194.9	193.6	196.3	196.3
55°	8609.0	3695.8	667.0	275.8	281.1	220.1	177.7	188.3	188.3	188.3	188.3
57.5°	9110.2	3453.1	473.4	224.1	233.4	180.3	167.1	181.7	180.3	179.0	179.0
60°	9470.9	3060.6	311.6	184.3	185.7	148.5	155.2	171.1	169.7	163.1	163.1
62.5°	9740.1	2627.0	200.2	156.5	141.9	133.9	141.9	155.2	149.8	135.3	132.6
65°	9709.6	2026.3	153.8	133.9	116.7	116.7	123.3	135.3	119.3	95.5	92.8
67.5°	9143.4	1371.2	127.3	112.7	98.1	96.8	102.1	112.7	102.1	80.9	78.2
70°	8131.6	896.4	102.1	87.5	78.2	71.6	82.2	96.8	86.2	65.0	62.3
72.5°	6599.9	546.3	76.9	63.7	57.0	46.4	65.0	79.6	69.0	47.7	45.1
75°	4270.0	278.5	53.0	41.1	30.5	27.8	47.7	59.7	47.7	29.2	25.2
77.5°	1633.7	116.7	29.2	18.6	15.9	13.3	26.5	35.8	19.9	6.6	5.3
80°	314.3	49.1	14.6	9.3	8.0	5.3	4.0	2.7	0.0	0.0	0.0
82.5°	54.4	15.9	5.3	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	18.6	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.6	0.0	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)