

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: P950204

Luminaire Tested: **GALN-SB4D-722-U-T4W-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950204
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB4D-722-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25951 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

Input Watts (W): 293.6
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

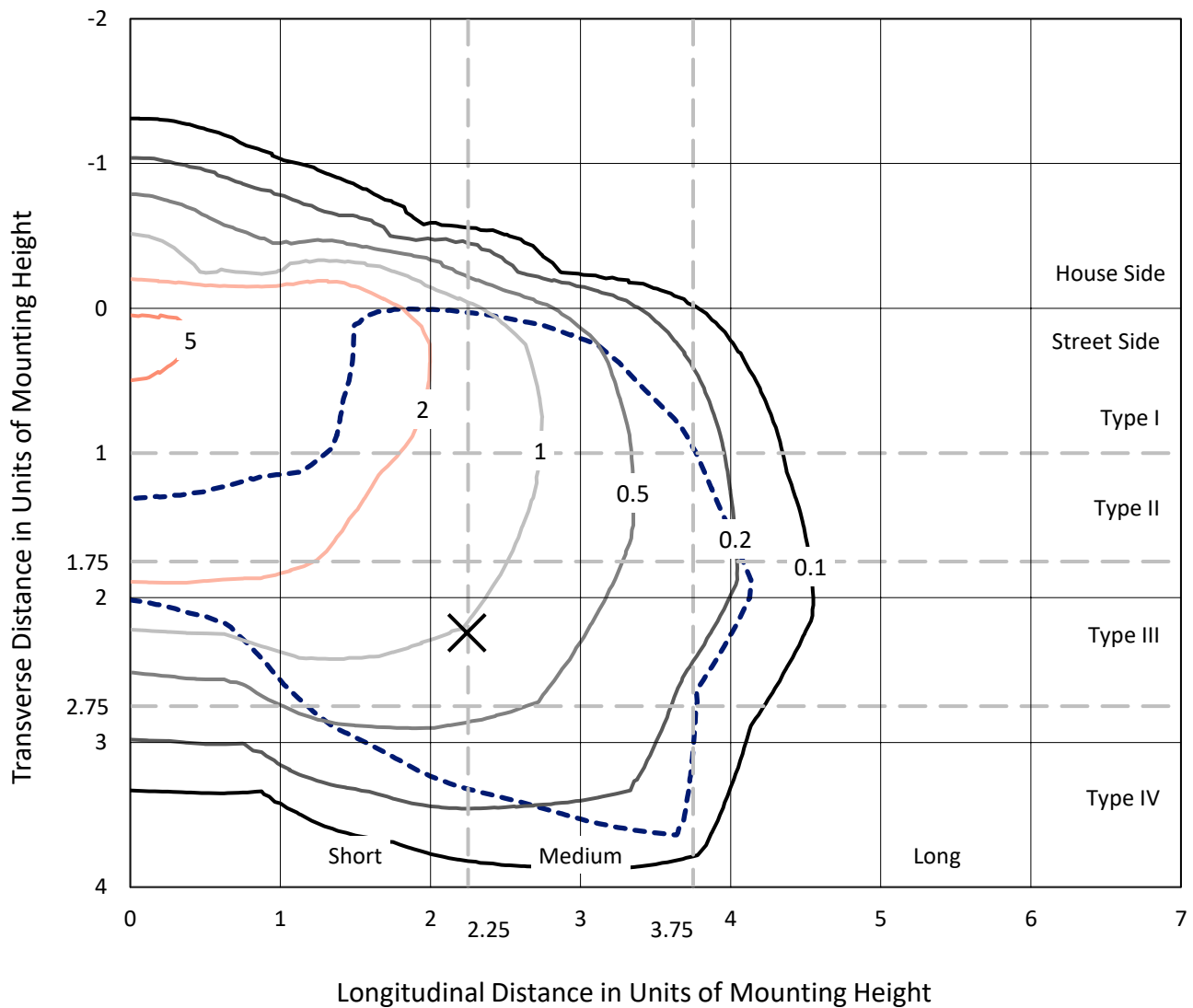


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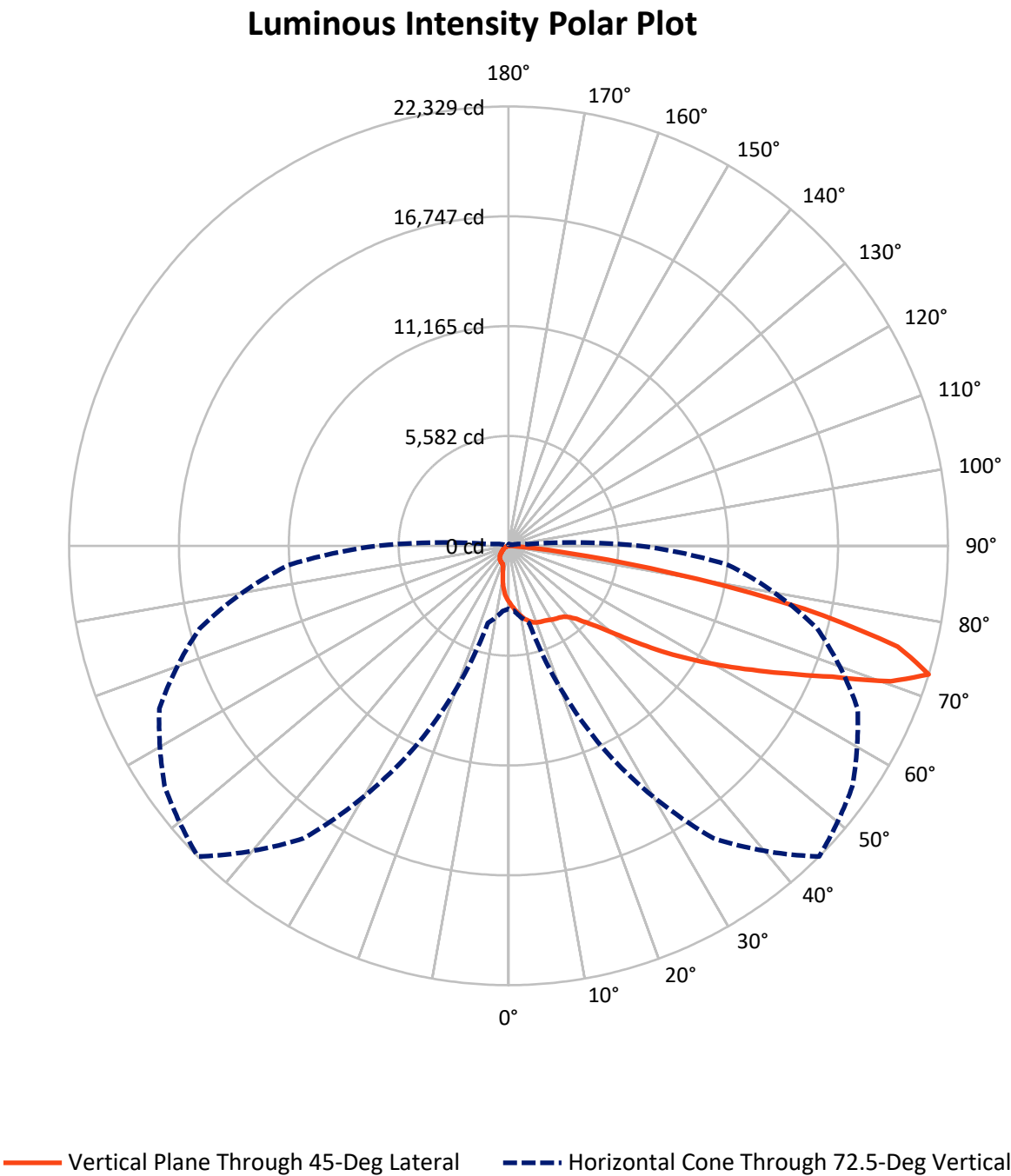
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type IV - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2726.7	0.0	2726.7
	% Fixture	10.5	0.0	10.5
Street Side	Lumens	23224.3	0.0	23224.3
	% Fixture	89.5	0.0	89.5
Total	Lumens	25951.0	0.0	25951.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	267.9	1.0
10°-20°	782.9	3.0
20°-30°	1285.6	5.0
30°-40°	1823.3	7.0
40°-50°	3013.6	11.6
50°-60°	5413.7	20.9
60°-70°	7517.2	29.0
70°-80°	5452.7	21.0
80°-90°	394.2	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°	25951.0	100.0
0°-180°	25951.0	100.0

Coefficient of Utilization



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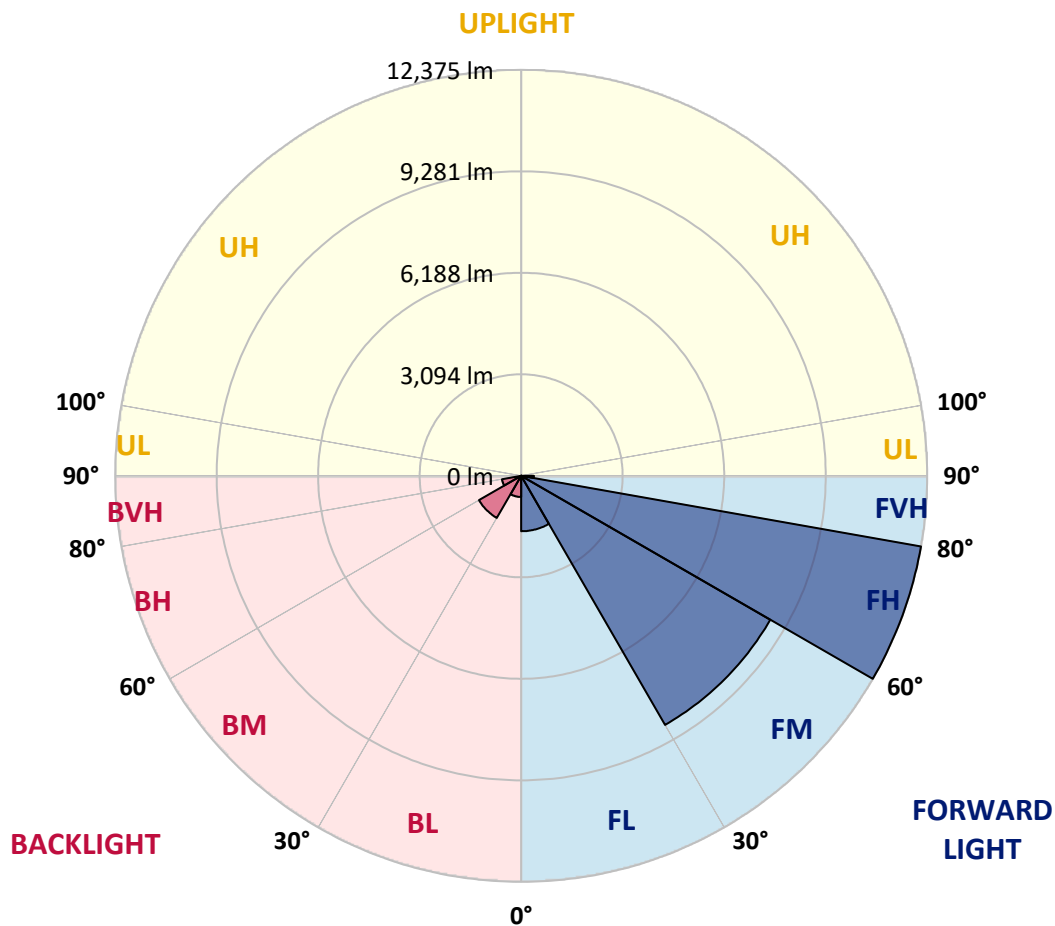
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1690.4	6.5			
FM	(30°-60°)	8767.6	33.8			
FH	(60°-80°)	12375.3	47.7			G5
FVH	(80°-90°)	390.9	1.5			G3/500
BL	(0°-30°)	645.9	2.5	B2/1000		
BM	(30°-60°)	1482.9	5.7	B2/2500		
BH	(60°-80°)	594.6	2.3	B2/1000		G2/1000
BVH	(80°-90°)	3.3	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-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	2843.0	2843.0	2843.0	2843.0	2843.0	2843.0	2843.0	2843.0	2843.0	2843.0	2843.0
2.5°	3105.1	3110.5	3106.9	3085.7	3050.2	3030.7	3020.1	2984.7	2961.7	2920.9	2878.4
5°	3390.3	3411.6	3399.2	3356.7	3289.4	3241.5	3227.4	3154.7	3089.2	3013.0	2924.5
7.5°	3693.2	3703.9	3680.8	3625.9	3535.6	3454.1	3441.7	3340.7	3236.2	3119.3	2998.9
10°	3955.4	3967.8	3932.4	3852.6	3749.9	3648.9	3631.2	3519.6	3395.6	3252.2	3098.1
12.5°	4175.0	4187.4	4141.4	4045.7	3932.4	3827.8	3810.1	3693.2	3556.8	3397.4	3206.1
15°	4341.5	4364.6	4302.6	4199.8	4077.6	3973.1	3964.2	3849.1	3716.3	3539.1	3335.4
17.5°	4439.0	4462.0	4403.5	4279.5	4175.0	4086.5	4075.8	3980.2	3856.2	3686.1	3461.2
20°	4454.9	4476.2	4414.2	4306.1	4219.3	4148.5	4143.1	4074.1	3983.7	3820.8	3597.6
22.5°	4407.1	4433.6	4377.0	4290.2	4229.9	4192.7	4185.7	4146.7	4095.3	3957.2	3725.1
25°	4357.5	4378.7	4336.2	4260.1	4228.2	4224.6	4229.9	4222.9	4212.2	4095.3	3873.9
27.5°	4353.9	4377.0	4329.1	4256.5	4238.8	4276.0	4281.3	4315.0	4323.8	4221.1	4017.4
30°	4384.0	4400.0	4353.9	4277.8	4268.9	4353.9	4355.7	4415.9	4430.1	4327.4	4159.1
32.5°	4449.6	4467.3	4421.2	4309.6	4297.3	4415.9	4421.2	4501.0	4524.0	4440.7	4307.9
35°	4603.7	4624.9	4571.8	4398.2	4353.9	4474.4	4490.3	4584.2	4630.3	4561.2	4462.0
37.5°	4988.1	4926.1	4853.4	4577.1	4483.2	4566.5	4593.1	4702.9	4784.4	4704.7	4646.2
40°	5942.8	5748.0	5521.2	4881.8	4710.0	4763.1	4784.4	4894.2	5005.8	4927.8	4899.5
42.5°	7375.8	7145.6	6780.7	5583.2	5051.8	5078.4	5094.3	5190.0	5347.7	5285.7	5292.7
45°	8653.0	8569.7	8197.7	6780.7	5691.3	5560.2	5579.7	5629.3	5861.3	5838.3	5884.4
47.5°	9634.3	9586.4	9299.5	8155.2	6771.8	6150.1	6205.0	6228.0	6562.8	6644.3	6768.3
50°	10388.9	10371.1	10114.3	9377.4	8183.6	7019.8	7039.3	6989.7	7491.0	7692.9	7928.5
52.5°	11100.9	11161.2	10971.6	10512.9	9691.0	8158.8	8155.2	7921.4	8598.0	8902.7	9304.8
55°	11743.9	11765.2	11784.7	11671.3	11207.2	9455.4	9421.7	9039.1	9882.3	10197.6	10633.3
57.5°	12348.0	12356.8	12530.4	12762.4	12785.5	10847.6	10785.6	10326.9	11285.2	11510.1	11777.6
60°	12753.6	12794.3	13161.0	13805.8	14087.4	12284.2	12250.5	11782.9	12712.8	12817.4	12767.8
62.5°	12169.0	12417.0	13341.7	14620.6	15316.7	13876.6	13860.7	13421.4	14214.9	14129.9	13704.8
65°	9850.4	10270.2	11896.3	15171.5	16523.0	15655.0	15678.1	15210.4	15757.8	15481.4	14466.5
67.5°	6890.5	7333.3	9257.0	15215.7	17871.0	17743.4	17876.3	17142.9	17396.2	16776.3	14647.1
70°	4764.9	4993.4	6245.7	14262.8	18921.4	20620.1	20616.5	19516.5	19025.9	17366.1	13726.0
72.5°	3204.3	3323.0	4056.3	11315.3	18149.1	22329.4	22226.7	21330.4	19575.0	16241.3	11214.3
75°	1351.5	1438.3	1877.6	6359.1	14358.4	20428.8	20150.7	18850.5	17392.7	12789.0	6996.8
77.5°	428.7	465.9	740.4	2276.2	7909.0	15355.7	15061.6	11772.3	11657.1	6415.8	2557.8
80°	203.7	237.4	416.3	914.0	3112.2	8351.8	8311.1	5340.6	5014.6	1732.4	513.7
82.5°	88.6	104.5	230.3	488.9	1392.3	2979.4	3039.6	1817.4	1503.9	657.2	157.6
85°	28.3	37.2	106.3	225.0	588.1	740.4	731.6	432.2	605.8	357.8	54.9
87.5°	0.0	0.0	35.4	51.4	60.2	42.5	47.8	37.2	168.3	99.2	19.5
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°	2843.0	2843.0	2843.0	2843.0	2843.0	2843.0	2843.0	2843.0	2843.0	2843.0	2843.0
2.5°	2857.2	2828.8	2779.2	2733.2	2692.4	2651.7	2626.9	2591.5	2587.9	2587.9	2596.8
5°	2876.6	2830.6	2742.0	2648.1	2540.1	2437.4	2334.6	2235.4	2203.5	2180.5	2191.1
7.5°	2933.3	2860.7	2720.8	2541.9	2336.4	2111.4	1953.8	1783.7	1718.2	1682.8	1688.1
10°	3014.8	2915.6	2703.1	2389.5	2056.5	1750.1	1525.1	1340.9	1270.0	1239.9	1239.9
12.5°	3105.1	2982.9	2671.2	2200.0	1750.1	1383.4	1163.8	1078.7	1068.1	1068.1	1068.1
15°	3213.2	3064.4	2616.3	1976.8	1429.5	1094.7	1016.7	1020.3	1030.9	1038.0	1038.0
17.5°	3324.8	3151.2	2529.5	1727.0	1146.1	984.9	986.6	991.9	1000.8	1007.9	1007.9
20°	3445.2	3238.0	2414.3	1461.3	983.1	953.0	958.3	963.6	970.7	974.2	976.0
22.5°	3574.5	3319.5	2277.9	1201.0	928.2	926.4	928.2	933.5	942.3	942.3	945.9
25°	3712.7	3409.8	2122.1	1011.4	899.8	899.8	903.4	906.9	914.0	914.0	915.8
27.5°	3854.4	3493.1	1957.3	912.2	875.0	873.3	873.3	878.6	882.1	883.9	885.7
30°	4010.3	3590.5	1792.6	891.0	855.6	846.7	841.4	844.9	848.5	850.2	853.8
32.5°	4169.7	3684.4	1645.6	899.8	836.1	820.1	802.4	798.9	798.9	806.0	811.3
35°	4346.8	3787.1	1532.2	929.9	825.4	781.2	752.8	736.9	738.6	749.3	754.6
37.5°	4559.4	3911.1	1448.9	956.5	818.4	736.9	690.8	671.3	658.9	671.3	667.8
40°	4837.5	4093.5	1388.7	977.8	809.5	685.5	623.5	591.6	568.6	575.7	572.1
42.5°	5246.7	4380.5	1365.7	979.5	790.0	625.3	554.4	511.9	478.3	480.0	472.9
45°	5820.6	4834.0	1484.4	956.5	747.5	559.7	481.8	425.1	403.9	398.5	391.5
47.5°	6607.1	5494.7	1758.9	908.7	685.5	496.0	410.9	363.1	347.2	338.3	333.0
50°	7661.0	6343.1	2063.6	855.6	623.5	435.7	352.5	322.4	311.8	302.9	301.1
52.5°	8883.2	7204.0	2313.4	802.4	561.5	382.6	315.3	297.6	288.7	281.6	279.9
55°	10004.5	7797.4	2299.2	745.7	501.3	340.1	288.7	278.1	267.5	260.4	256.8
57.5°	10702.4	7880.7	1895.3	683.7	432.2	306.4	263.9	256.8	244.4	235.6	233.8
60°	11023.0	7405.9	1328.5	602.3	363.1	274.6	237.4	233.8	217.9	205.5	201.9
62.5°	11081.5	6523.8	885.7	501.3	302.9	244.4	210.8	205.5	184.2	163.0	152.3
65°	10844.1	5262.6	612.9	391.5	258.6	212.6	180.7	170.0	147.0	125.8	118.7
67.5°	10093.0	3695.0	426.9	281.6	219.6	168.3	143.5	139.9	122.2	104.5	99.2
70°	8716.7	2106.1	285.2	210.8	173.6	115.1	113.4	116.9	99.2	85.0	77.9
72.5°	6683.2	963.6	177.1	154.1	118.7	77.9	90.3	92.1	76.2	63.8	56.7
75°	3934.1	412.7	111.6	99.2	60.2	51.4	65.5	67.3	51.4	40.7	35.4
77.5°	1339.1	155.9	70.9	58.5	30.1	28.3	42.5	42.5	28.3	15.9	12.4
80°	304.7	58.5	35.4	23.0	14.2	12.4	14.2	12.4	7.1	1.8	0.0
82.5°	86.8	23.0	14.2	8.9	5.3	5.3	1.8	0.0	0.0	0.0	0.0
85°	24.8	10.6	3.5	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.6	1.8	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)