

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: P941108

Luminaire Tested: **GALN-SB4C-727-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941108
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB4C-727-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21079 lumens
Efficiency: N/A
Efficacy: 105.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

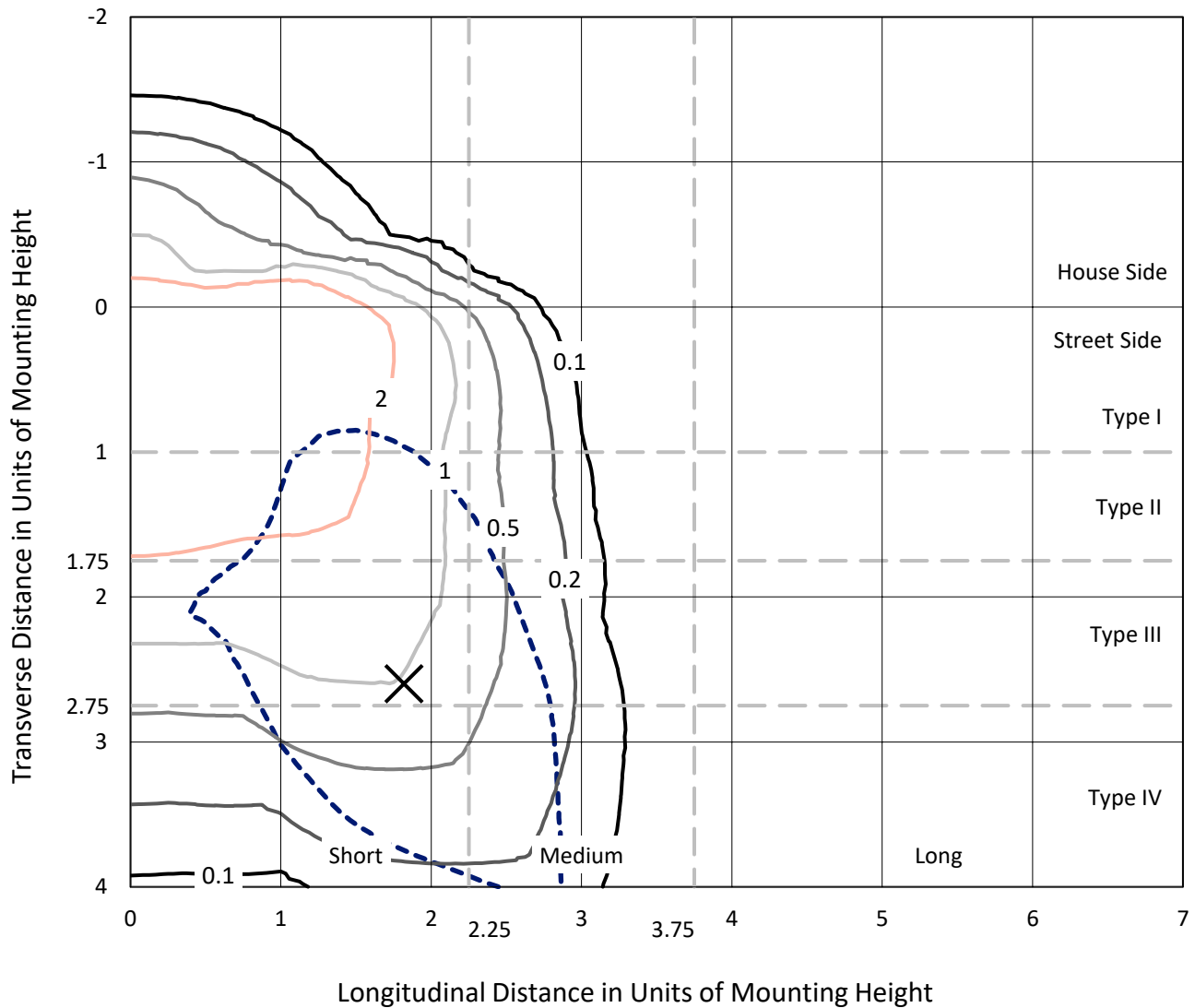
Input Watts (W): 200.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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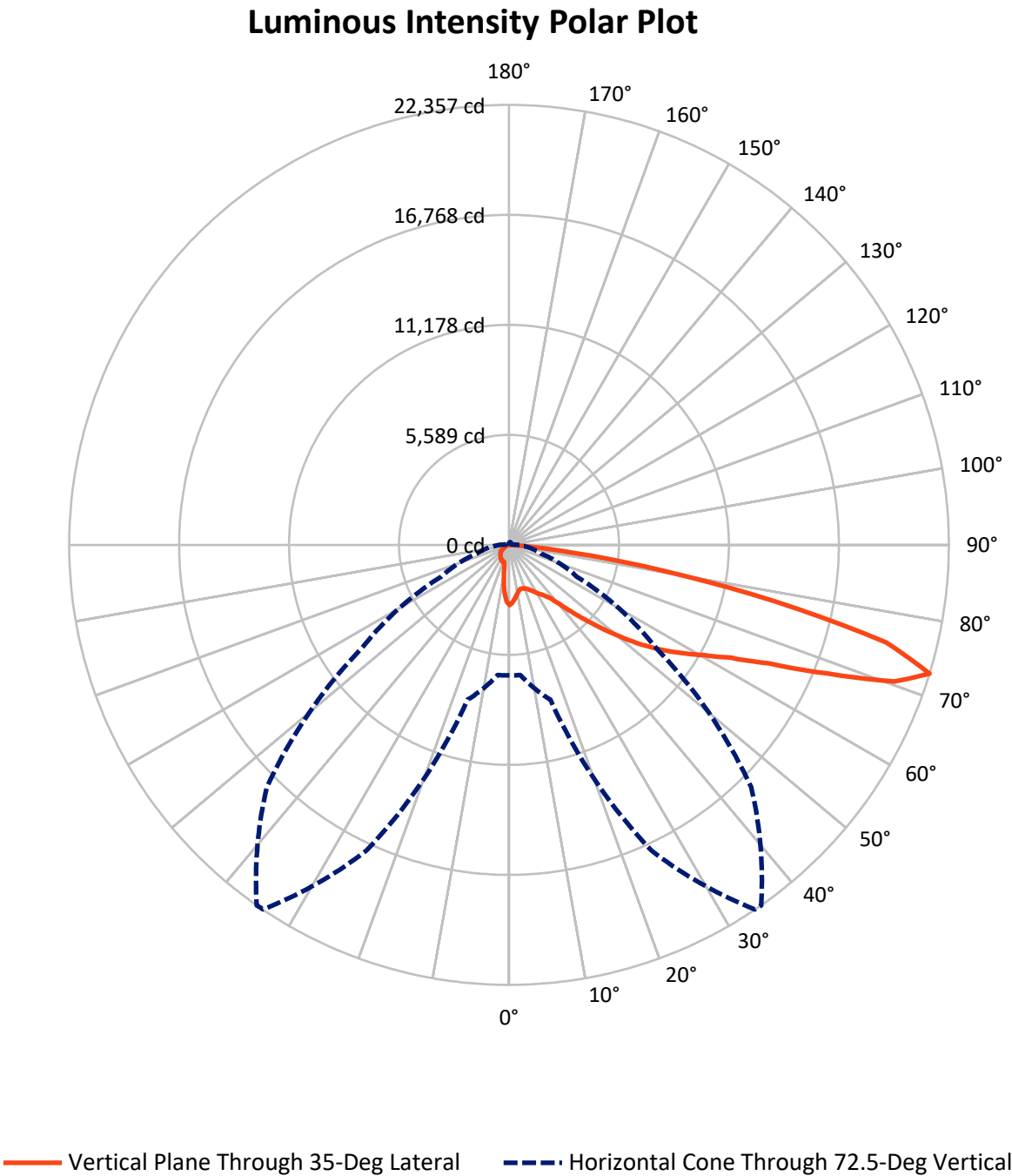
Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.9 fc
Type IV - Short - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2372.3	0.0	2372.3
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	18706.7	0.0	18706.7
	% Fixture	88.7	0.0	88.7
Total	Lumens	21079.0	0.0	21079.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	251.0	1.2
10°-20°	587.3	2.8
20°-30°	954.0	4.5
30°-40°	1591.8	7.6
40°-50°	3011.7	14.3
50°-60°	4785.6	22.7
60°-70°	5920.1	28.1
70°-80°	3680.0	17.5
80°-90°	297.4	1.4
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°	21079.0	100.0
0°-180°	21079.0	100.0

Coefficient of Utilization



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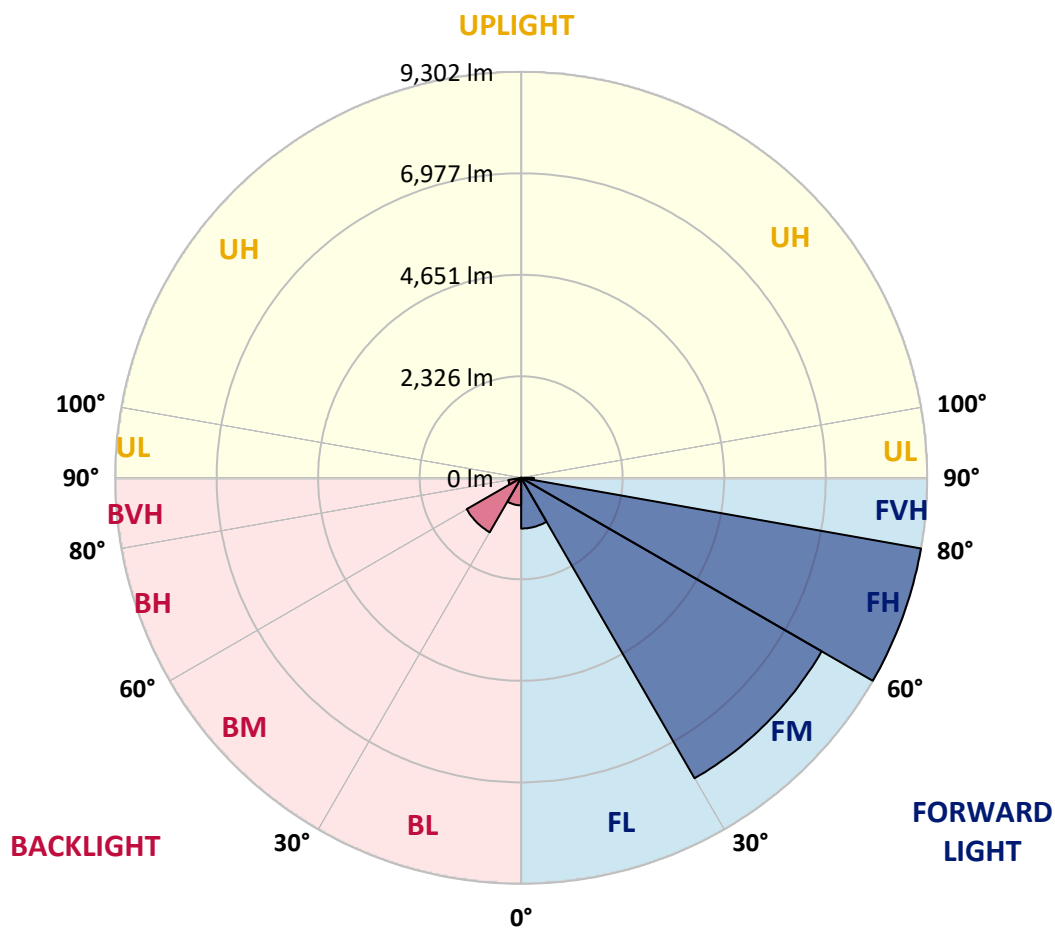
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1162.0	5.5			
FM	(30°-60°)	7948.9	37.7			
FH	(60°-80°)	9302.4	44.1			G4/12000
FVH	(80°-90°)	293.4	1.4			G3/500
BL	(0°-30°)	630.4	3.0	B2/1000		
BM	(30°-60°)	1440.2	6.8	B2/2500		
BH	(60°-80°)	297.7	1.4	B1/500		G1/500
BVH	(80°-90°)	4.0	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1
2.5°	2919.1	2943.8	2948.5	2956.2	2956.2	2965.5	2980.9	3002.5	3038.1	3056.6	3069.0
5°	2690.5	2709.1	2732.2	2750.8	2786.3	2790.9	2851.2	2909.9	2991.7	3053.5	3096.8
7.5°	2460.4	2482.0	2512.9	2557.7	2604.1	2618.0	2709.1	2807.9	2937.7	3053.5	3126.1
10°	2298.2	2299.8	2327.6	2372.4	2446.5	2463.5	2574.7	2715.3	2877.4	3035.0	3153.9
12.5°	2207.1	2217.9	2230.3	2264.3	2335.3	2346.1	2465.0	2630.3	2817.2	3024.2	3186.3
15°	2207.1	2214.8	2222.6	2239.5	2296.7	2306.0	2411.0	2576.3	2786.3	3028.8	3238.9
17.5°	2230.3	2242.6	2236.5	2256.5	2316.8	2323.0	2415.6	2560.8	2784.8	3058.1	3319.2
20°	2285.9	2295.2	2282.8	2295.2	2355.4	2367.7	2463.5	2590.2	2811.0	3109.1	3419.6
22.5°	2373.9	2378.6	2349.2	2358.5	2420.3	2435.7	2546.9	2673.6	2874.3	3191.0	3553.9
25°	2485.1	2494.4	2449.6	2460.4	2519.1	2537.6	2665.8	2798.7	2974.7	3303.7	3725.4
27.5°	2613.3	2618.0	2579.3	2577.8	2653.5	2679.7	2809.5	2953.1	3109.1	3445.8	3941.6
30°	2760.1	2774.0	2736.9	2730.7	2826.5	2848.1	2976.3	3143.1	3306.8	3659.0	4249.0
32.5°	2875.9	2886.7	2865.1	2880.5	2977.8	2994.8	3178.6	3411.8	3617.3	3961.7	4667.5
35°	3042.7	3048.9	2999.5	3027.3	3138.5	3181.7	3455.1	3788.7	4008.0	4341.6	5214.3
37.5°	3646.6	3646.6	3436.5	3299.1	3405.7	3444.3	3833.5	4262.9	4489.9	4851.3	5903.1
40°	4482.2	4468.3	4160.9	3879.8	3865.9	3941.6	4372.5	4860.6	5112.3	5463.0	6678.5
42.5°	5373.4	5351.8	4933.2	4655.2	4608.8	4635.1	4995.0	5597.3	5853.7	6209.0	7512.5
45°	6164.2	6158.0	5774.9	5401.2	5317.8	5401.2	5771.9	6459.2	6643.0	7016.7	8345.0
47.5°	6826.8	6826.8	6547.2	6303.2	6259.9	6309.4	6823.7	7415.2	7398.2	7877.0	9155.9
50°	7589.8	7583.6	7317.9	7212.9	7257.7	7327.2	8034.6	8422.2	8179.8	8721.9	9880.3
52.5°	8124.2	8161.2	8070.1	8053.1	8281.7	8402.2	9264.0	9407.7	8879.4	9523.5	10422.4
55°	8547.4	8590.6	8695.6	8814.6	9254.7	9412.3	10454.8	10342.1	9464.8	10218.5	10734.4
57.5°	9146.6	9084.8	9247.0	9481.8	10193.8	10383.8	11608.6	11224.0	9935.9	10782.3	10768.4
60°	9874.1	9883.4	9911.2	10207.7	11131.3	11375.4	12745.4	12058.0	10238.6	11128.2	10391.5
62.5°	10748.3	10762.2	10819.3	11275.0	12390.1	12620.2	13956.3	12740.7	10377.6	11030.9	9418.5
65°	10688.1	10746.7	11384.6	12943.0	14303.8	14530.8	15369.5	13219.5	10167.6	10141.3	7668.5
67.5°	9736.6	9832.4	10899.7	14935.5	17188.9	17442.2	17077.7	13313.7	9260.9	7886.3	5002.7
70°	8488.7	8522.6	9806.1	16727.1	20529.7	20786.1	18606.8	12277.4	7027.6	4398.8	2241.1
72.5°	6629.1	6636.8	8142.7	17142.6	22343.0	22356.9	17406.7	9114.2	3779.4	1689.7	778.4
75°	4735.5	4689.2	5453.7	13902.2	19657.1	19814.6	13049.6	4275.2	1444.1	798.5	387.7
77.5°	2539.2	2590.2	3085.9	8244.6	13579.4	13848.1	7120.2	1232.5	735.2	543.7	256.4
80°	784.6	827.9	1265.0	3774.8	7691.7	7853.9	2639.6	548.3	512.8	387.7	168.4
82.5°	247.1	256.4	590.0	1586.2	3192.5	3266.7	764.5	310.4	350.6	256.4	98.8
85°	71.0	72.6	262.6	591.5	789.2	804.7	214.7	120.5	200.8	159.1	51.0
87.5°	7.7	24.7	98.8	98.8	69.5	68.0	23.2	26.3	57.1	20.1	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°	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1	3055.1
2.5°	3061.2	3062.8	3042.7	3008.7	2971.6	2940.8	2902.1	2871.3	2849.6	2843.5	2854.3
5°	3082.9	3072.0	3014.9	2911.4	2787.9	2681.3	2562.4	2468.1	2406.4	2380.1	2389.4
7.5°	3115.3	3084.4	2959.3	2755.4	2519.1	2309.1	2095.9	1930.6	1825.6	1773.1	1780.8
10°	3143.1	3081.3	2866.6	2529.9	2168.5	1850.3	1563.1	1363.8	1252.6	1200.1	1201.6
12.5°	3169.3	3079.8	2746.2	2262.7	1773.1	1383.9	1116.7	1017.8	986.9	976.1	973.0
15°	3218.8	3084.4	2594.8	1956.9	1379.3	1045.6	948.3	946.8	953.0	949.9	948.3
17.5°	3286.7	3089.0	2423.3	1632.6	1064.2	922.1	917.4	931.3	940.6	936.0	934.4
20°	3374.8	3107.6	2241.1	1311.3	914.4	891.2	902.0	914.4	922.1	914.4	912.8
22.5°	3498.3	3140.0	2041.9	1053.4	866.5	872.7	881.9	895.8	903.5	892.7	891.2
25°	3649.7	3191.0	1845.7	915.9	843.3	851.0	864.9	880.4	889.6	878.8	877.3
27.5°	3845.8	3272.8	1665.0	885.0	820.1	824.8	844.9	868.0	880.4	866.5	866.5
30°	4130.0	3407.2	1509.0	898.9	806.2	795.4	823.2	855.7	869.6	857.2	855.7
32.5°	4506.9	3597.2	1413.2	920.5	800.1	761.4	787.7	829.4	852.6	844.9	844.9
35°	5001.1	3886.0	1376.2	945.2	795.4	725.9	744.5	789.2	829.4	837.1	837.1
37.5°	5600.4	4287.6	1387.0	956.1	781.5	696.6	705.8	744.5	797.0	821.7	827.9
40°	6281.5	4755.6	1448.8	945.2	766.1	671.9	673.4	702.8	749.1	786.2	798.5
42.5°	6984.3	5302.3	1563.1	905.1	752.2	650.2	645.6	665.7	696.6	722.8	733.6
45°	7653.1	5864.5	1675.8	849.5	735.2	628.6	617.8	625.5	631.7	642.5	648.7
47.5°	8236.9	6259.9	1643.4	798.5	712.0	603.9	585.4	582.3	563.7	562.2	560.7
50°	8640.0	6346.4	1459.6	747.5	678.0	576.1	546.8	528.2	495.8	480.3	481.9
52.5°	8768.2	6005.1	1192.4	696.6	622.4	539.0	497.3	468.0	427.8	413.9	412.4
55°	8598.3	5336.3	953.0	634.8	545.2	489.6	443.3	404.7	372.2	355.2	355.2
57.5°	8182.8	4485.3	753.7	562.2	463.4	434.0	387.7	349.1	321.3	304.3	301.2
60°	7494.0	3561.7	596.2	475.7	395.4	373.8	325.9	301.2	276.5	256.4	251.8
62.5°	6448.4	2542.3	468.0	376.9	330.5	305.8	278.0	259.5	230.1	202.3	197.7
65°	5032.0	1555.3	361.4	276.5	265.7	253.3	236.3	219.3	183.8	156.0	151.4
67.5°	3174.0	736.7	257.9	208.5	210.1	203.9	196.2	182.3	156.0	131.3	128.2
70°	1397.8	356.8	169.9	159.1	156.0	156.0	162.2	157.5	132.8	109.7	105.0
72.5°	475.7	191.5	126.7	120.5	112.7	111.2	135.9	131.3	106.6	84.9	80.3
75°	248.7	128.2	92.7	86.5	68.0	81.9	108.1	101.9	75.7	55.6	51.0
77.5°	162.2	91.1	63.3	55.6	38.6	54.1	80.3	71.0	44.8	27.8	24.7
80°	101.9	60.2	37.1	26.3	18.5	29.3	43.2	30.9	17.0	6.2	4.6
82.5°	54.1	30.9	13.9	9.3	7.7	9.3	10.8	7.7	3.1	0.0	0.0
85°	21.6	10.8	4.6	3.1	1.5	0.0	3.1	1.5	0.0	0.0	0.0
87.5°	7.7	1.5	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)