

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: P940586

Luminaire Tested: **GALN-SB3D-722-U-T3-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P940586
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-SB3D-722-U-T3-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(3) 70 CRI, 2200K, 900mA 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: 19781 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - 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

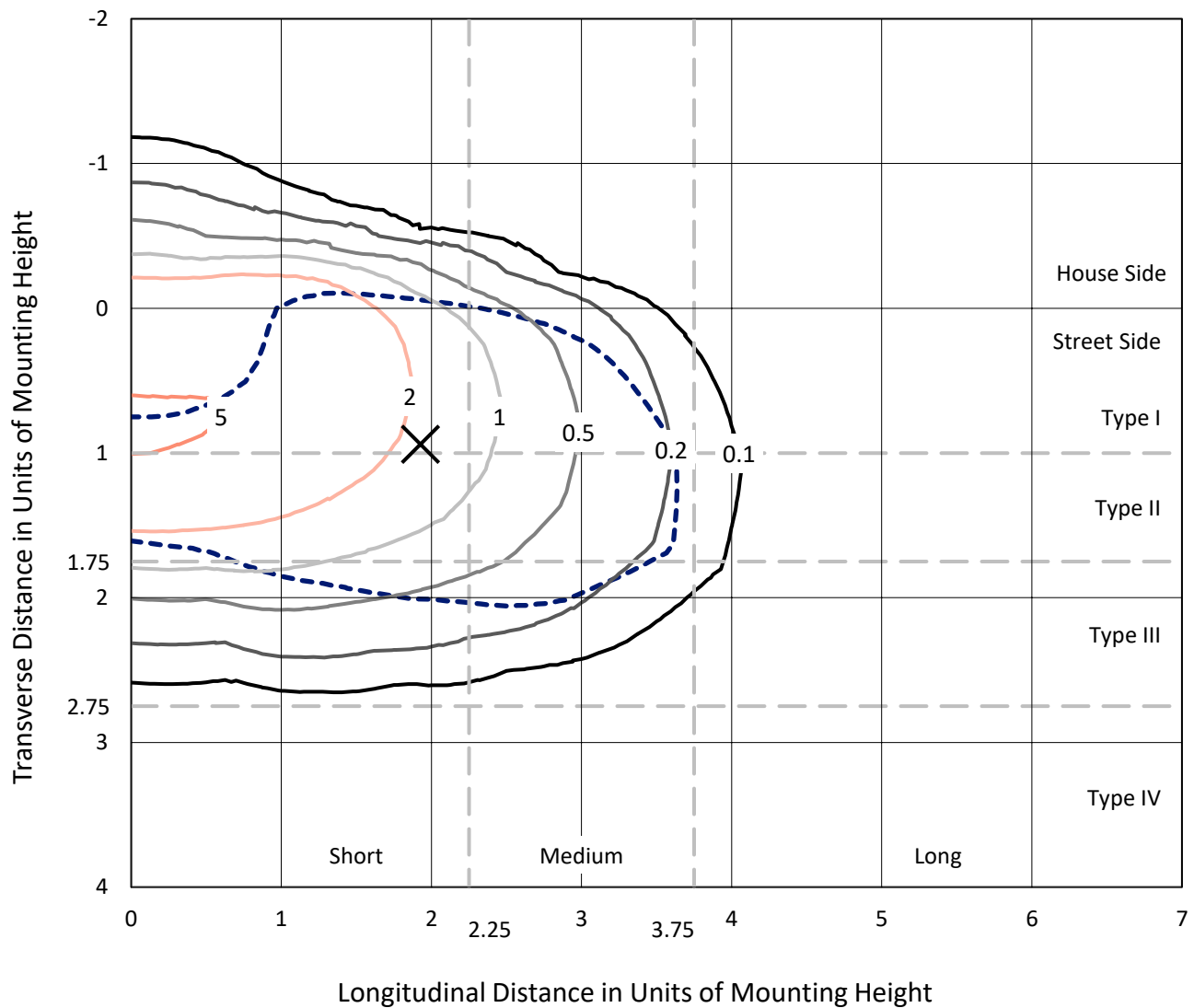


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 --- 1/2 Max cd

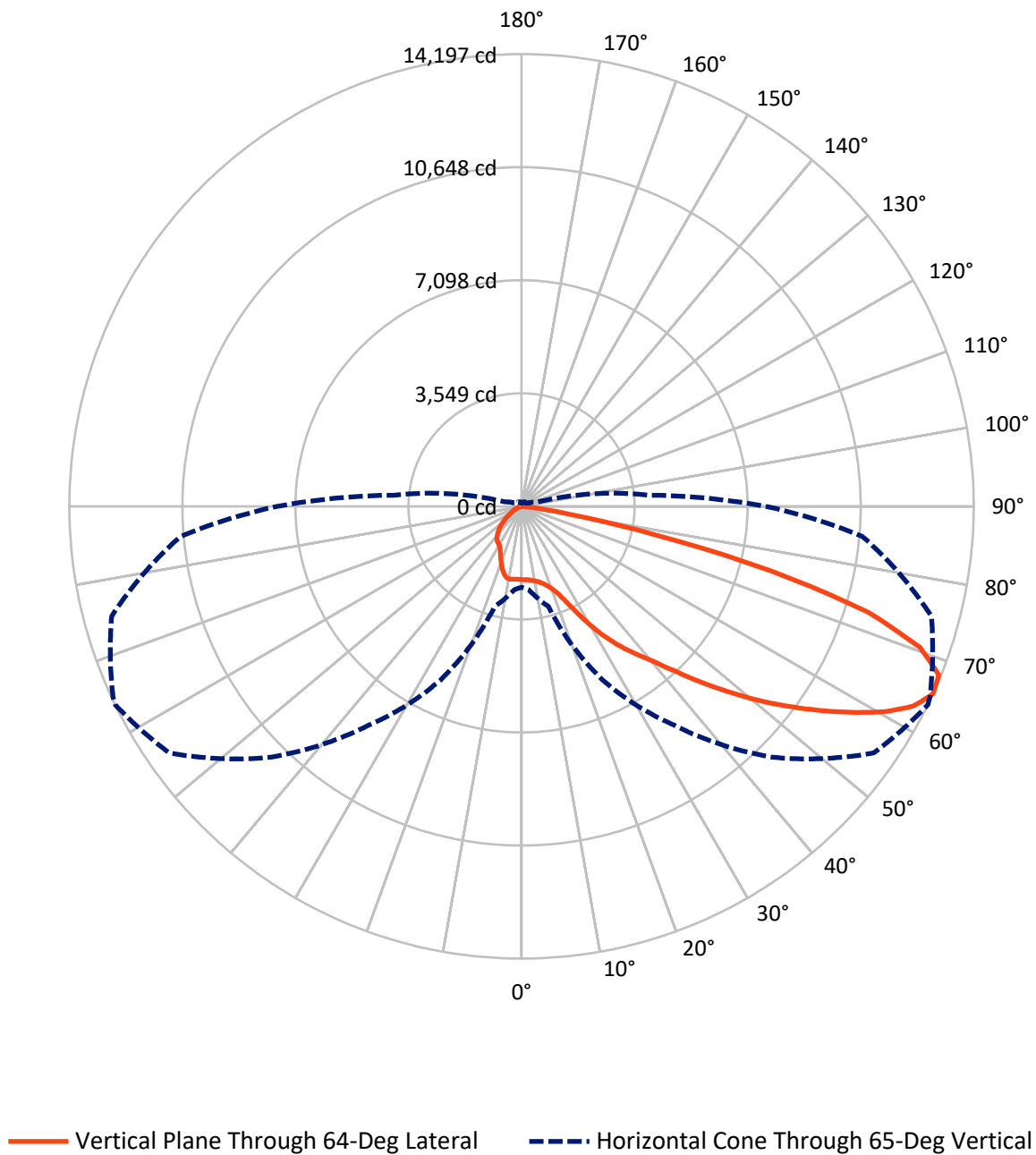


Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2645.3	0.0	2645.3
	% Fixture	13.4	0.0	13.4
Street Side	Lumens	17135.7	0.0	17135.7
	% Fixture	86.6	0.0	86.6
Total	Lumens	19781.0	0.0	19781.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	212.3	1.1
10°-20°	575.7	2.9
20°-30°	1090.9	5.5
30°-40°	2207.6	11.2
40°-50°	3760.6	19.0
50°-60°	5114.1	25.9
60°-70°	4802.4	24.3
70°-80°	1924.1	9.7
80°-90°	93.2	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°	19781.0	100.0
0°-180°	19781.0	100.0

Coefficient of Utilization



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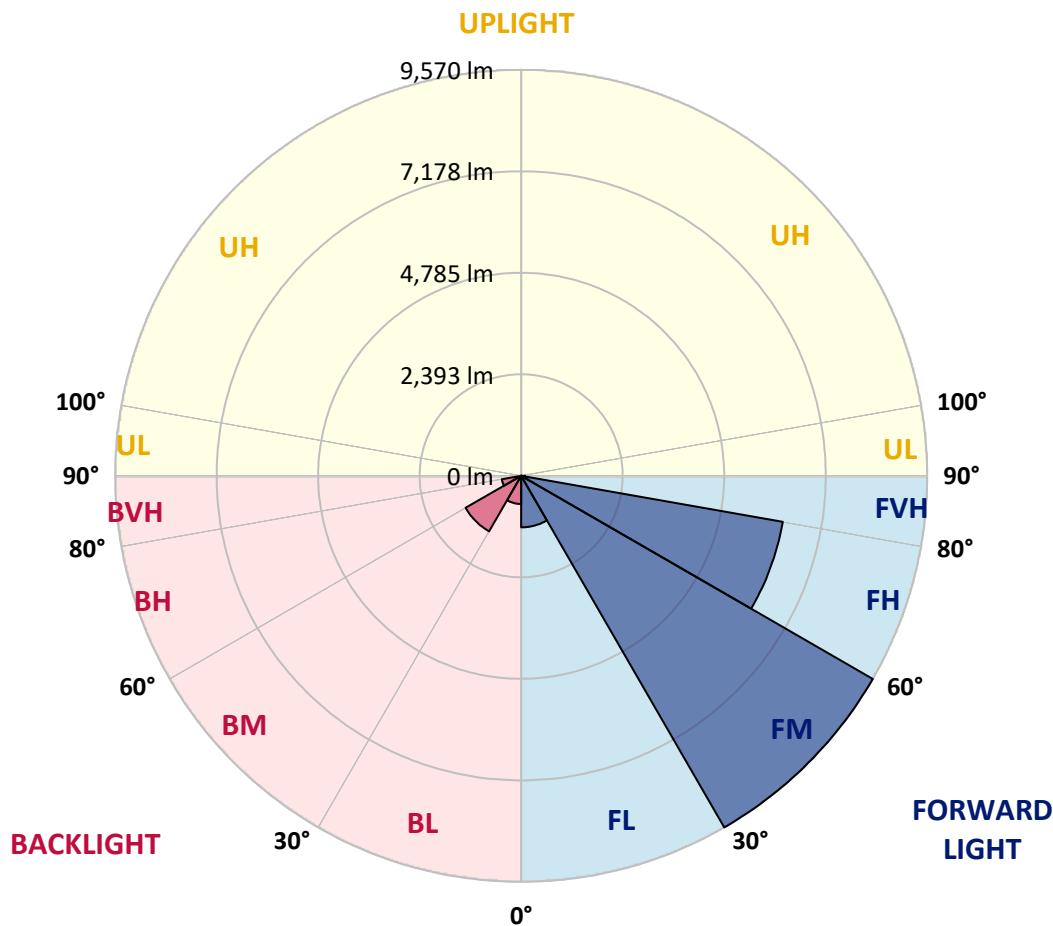
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1214.8	6.1			
FM	(30°-60°)	9570.0	48.4			
FH	(60°-80°)	6262.2	31.7			G3/7500
FVH	(80°-90°)	88.7	0.4			G1/100
BL	(0°-30°)	664.2	3.4	B2/1000		
BM	(30°-60°)	1512.3	7.6	B2/2500		
BH	(60°-80°)	464.3	2.3	B1/500		G1/500
BVH	(80°-90°)	4.6	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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	2300.7	2300.7	2300.7	2300.7	2300.7	2300.7	2300.7	2300.7	2300.7	2300.7	2300.7
2.5°	2292.8	2308.7	2304.7	2300.7	2299.4	2302.1	2303.4	2302.1	2302.1	2302.1	2303.4
5°	2249.0	2262.3	2262.3	2271.6	2284.8	2300.7	2312.7	2315.3	2318.0	2322.0	2320.6
7.5°	2165.5	2176.1	2184.0	2214.5	2247.7	2290.1	2325.9	2344.5	2347.1	2361.7	2367.0
10°	2108.5	2121.7	2135.0	2166.8	2214.5	2278.2	2339.2	2384.3	2390.9	2425.4	2441.3
12.5°	2105.8	2119.1	2136.3	2170.8	2226.5	2294.1	2368.4	2433.3	2445.3	2495.7	2528.8
15°	2133.7	2149.6	2165.5	2207.9	2267.6	2349.8	2429.4	2510.3	2522.2	2593.8	2629.6
17.5°	2190.7	2211.9	2223.8	2266.3	2329.9	2421.4	2526.2	2619.0	2629.6	2713.1	2758.2
20°	2303.4	2328.6	2332.6	2367.0	2429.4	2527.5	2652.1	2767.5	2780.8	2876.3	2926.6
22.5°	2536.8	2572.6	2540.8	2558.0	2613.7	2711.8	2847.1	2992.9	3011.5	3120.2	3165.3
25°	2947.9	2998.2	2916.0	2886.9	2910.7	3012.8	3182.6	3366.9	3388.1	3475.6	3498.2
27.5°	3755.4	3690.5	3565.8	3443.8	3372.2	3430.5	3621.5	3849.6	3876.1	3961.0	3934.5
30°	4642.6	4585.6	4417.1	4146.6	3976.9	3967.6	4144.0	4398.6	4429.1	4510.0	4429.1
32.5°	5531.0	5476.7	5293.7	4960.8	4666.4	4520.6	4642.6	4925.0	4940.9	4992.7	4873.3
35°	6404.9	6349.2	6166.2	5825.4	5463.4	5131.9	5108.0	5426.3	5431.6	5486.0	5308.3
37.5°	7284.1	7237.7	7042.8	6708.6	6351.9	5894.4	5672.9	5901.0	5907.7	5960.7	5776.4
40°	7911.3	7931.2	7797.3	7538.7	7232.4	6732.5	6306.8	6406.3	6366.5	6455.3	6345.3
42.5°	8449.7	8489.5	8372.8	8242.9	8065.2	7624.9	7091.8	7074.6	7010.9	7058.7	6944.6
45°	8915.2	8948.3	8843.6	8813.1	8809.1	8500.1	7949.8	7846.4	7757.5	7748.2	7611.7
47.5°	9086.2	9149.9	9195.0	9297.1	9496.0	9366.0	8836.9	8676.5	8577.0	8504.1	8288.0
50°	9151.2	9218.9	9372.7	9669.7	10140.5	10196.2	9720.1	9539.8	9417.8	9285.2	8966.9
52.5°	9063.7	9184.4	9391.2	9891.2	10574.1	10861.9	10567.5	10409.7	10270.4	10054.3	9582.2
55°	8547.9	8668.5	9091.6	9888.5	10790.3	11328.6	11368.4	11298.1	11141.7	10800.9	10079.5
57.5°	7460.5	7639.5	8309.2	9551.7	10786.3	11730.4	12153.5	12203.8	12028.8	11540.8	10470.7
60°	5954.1	6196.7	7013.6	8805.1	10453.4	11947.9	12841.7	13093.6	12908.0	12270.1	10787.6
62.5°	4154.6	4435.7	5208.8	7635.5	9692.3	11791.4	13344.3	13809.7	13669.2	12922.6	10909.6
65°	2534.1	2624.3	3247.6	6008.4	8398.0	11136.4	13499.4	14196.9	14150.5	13321.7	10729.3
67.5°	1688.1	1763.7	1942.7	4120.1	6519.0	9827.5	13128.1	14129.3	14142.6	13256.7	10068.9
70°	1017.1	1082.1	1198.8	2396.2	4224.9	7778.7	11978.4	13267.4	13344.3	12388.2	8817.1
72.5°	419.0	462.8	568.9	1086.1	2188.0	4937.0	9538.4	11391.0	11570.0	10416.3	6766.9
75°	237.4	259.9	334.2	545.0	949.5	2300.7	5777.7	8086.4	8350.3	7179.4	4071.0
77.5°	157.8	168.4	216.1	352.7	534.4	785.0	2469.1	4212.9	4716.8	3921.2	1762.4
80°	106.1	115.4	148.5	236.0	347.4	336.8	786.4	1560.8	1920.2	1347.3	429.6
82.5°	71.6	72.9	106.1	155.2	220.1	163.1	232.1	485.3	610.0	389.9	163.1
85°	41.1	39.8	78.2	90.2	98.1	67.6	70.3	145.9	191.0	164.4	92.8
87.5°	5.3	8.0	30.5	23.9	13.3	14.6	14.6	25.2	37.1	39.8	19.9
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°	2300.7	2300.7	2300.7	2300.7	2300.7	2300.7	2300.7	2300.7	2300.7	2300.7	2300.7
2.5°	2303.4	2302.1	2298.1	2294.1	2284.8	2279.5	2282.2	2279.5	2278.2	2279.5	2284.8
5°	2320.6	2316.6	2306.0	2292.8	2274.2	2251.7	2237.1	2215.9	2196.0	2184.0	2186.7
7.5°	2367.0	2363.1	2348.5	2311.3	2251.7	2157.5	2071.3	1995.7	1938.7	1905.6	1906.9
10°	2441.3	2434.7	2412.1	2329.9	2173.4	1967.9	1796.8	1654.9	1562.1	1518.4	1514.4
12.5°	2528.8	2520.9	2481.1	2312.7	2024.9	1704.0	1468.0	1310.2	1224.0	1185.5	1181.5
15°	2632.3	2621.6	2543.4	2230.5	1808.8	1412.3	1196.1	1078.1	1022.4	987.9	989.3
17.5°	2760.9	2742.3	2589.8	2107.1	1574.0	1189.5	1029.0	940.2	891.1	858.0	855.3
20°	2928.0	2897.5	2626.9	1959.9	1357.9	1048.9	916.3	842.1	804.9	775.8	770.4
22.5°	3161.4	3117.6	2672.0	1800.8	1205.4	952.1	832.8	778.4	747.9	714.8	709.4
25°	3450.4	3398.7	2727.7	1653.6	1100.6	868.6	771.8	726.7	690.9	652.4	648.4
27.5°	3854.9	3762.1	2794.0	1532.9	1010.5	797.0	716.1	665.7	624.6	592.8	586.1
30°	4305.8	4153.3	2852.4	1460.0	928.3	730.7	643.1	592.8	554.3	531.8	527.8
32.5°	4732.8	4525.9	2890.8	1428.2	854.0	655.1	563.6	509.2	480.0	473.4	477.4
35°	5135.9	4862.7	2886.9	1397.7	787.7	579.5	485.3	429.6	407.1	411.1	411.1
37.5°	5600.0	5222.1	2859.0	1349.9	733.3	510.5	417.7	368.6	348.8	350.1	355.4
40°	6139.7	5637.1	2841.8	1259.8	673.6	446.9	362.0	322.2	307.6	302.3	301.0
42.5°	6715.2	6038.9	2844.4	1157.7	599.4	389.9	323.6	290.4	277.1	273.2	271.8
45°	7293.4	6422.2	2848.4	1051.6	521.1	346.1	295.7	267.9	259.9	254.6	254.6
47.5°	7837.1	6748.4	2774.1	937.5	444.2	313.0	273.2	254.6	248.0	241.3	241.3
50°	8343.6	6965.9	2595.1	804.9	383.2	286.4	255.9	242.7	236.0	229.4	229.4
52.5°	8737.5	7000.3	2299.4	668.3	340.8	266.5	245.3	233.4	225.4	218.8	217.5
55°	8912.5	6784.2	1879.0	541.0	307.6	249.3	234.7	222.8	213.5	206.9	205.5
57.5°	8867.4	6329.3	1465.3	435.0	275.8	232.1	221.5	213.5	202.9	192.3	191.0
60°	8646.0	5720.7	1104.6	362.0	246.6	213.5	206.9	200.2	185.7	169.7	167.1
62.5°	8262.8	4955.5	787.7	299.7	214.8	192.3	189.6	184.3	163.1	133.9	131.3
65°	7676.6	4026.0	530.4	249.3	184.3	168.4	169.7	160.5	132.6	99.5	96.8
67.5°	6820.0	2943.9	339.5	204.2	153.8	140.6	141.9	136.6	112.7	84.9	80.9
70°	5728.6	1949.3	221.5	155.2	123.3	108.7	116.7	118.0	95.5	69.0	66.3
72.5°	4199.7	1151.0	155.2	115.4	90.2	75.6	95.5	98.1	76.9	51.7	49.1
75°	2393.6	546.3	116.7	83.5	55.7	53.0	74.3	74.3	53.0	34.5	31.8
77.5°	1005.2	228.1	82.2	54.4	31.8	30.5	50.4	46.4	26.5	15.9	15.9
80°	290.4	102.1	43.8	26.5	13.3	11.9	19.9	14.6	6.6	2.7	2.7
82.5°	114.0	45.1	17.2	10.6	5.3	5.3	2.7	0.0	0.0	0.0	0.0
85°	67.6	18.6	8.0	4.0	1.3	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.2	4.0	2.7	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)