

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: P950599

Luminaire Tested: **GALN-SB5A-730-U-T2U-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P950599
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB5A-730-U-T2U-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II U
OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17317 lumens
Efficiency: N/A
Efficacy: 122.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

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

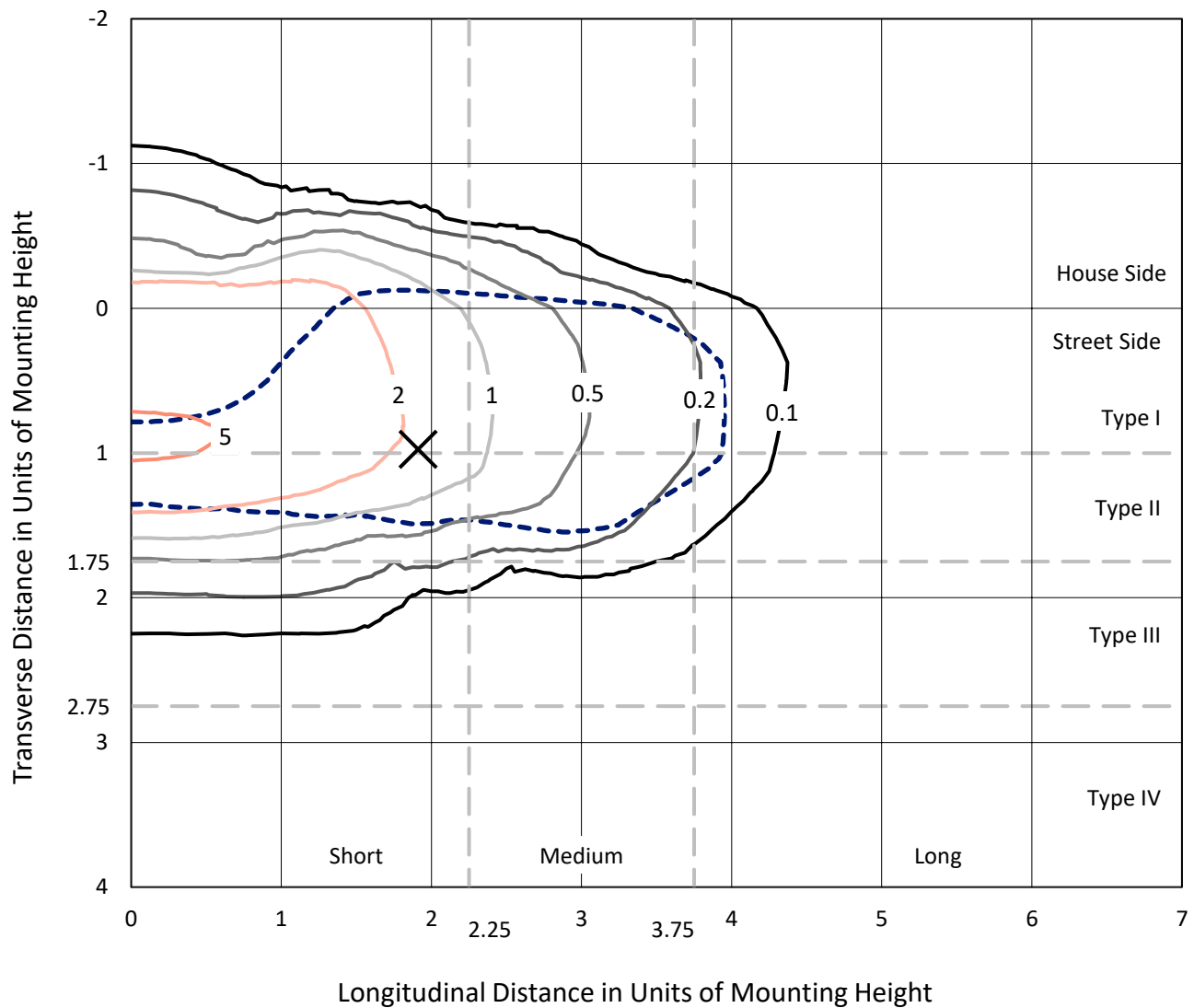


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Iso-Footcandle Lines of Horizontal Illumination

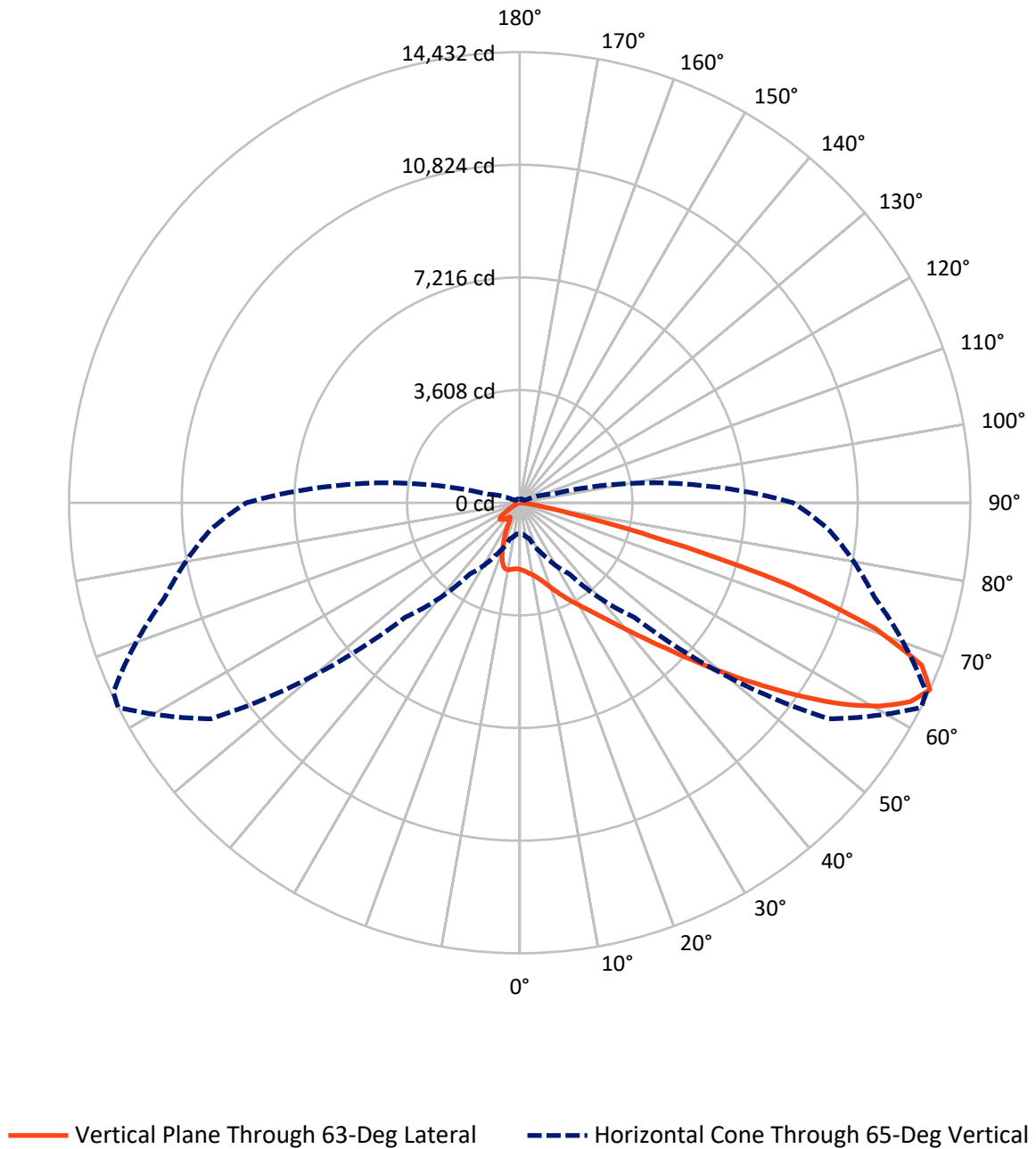
✕ Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.9 fc
Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2545.5	0.0	2545.5
	% Fixture	14.7	0.0	14.7
Street Side	Lumens	14771.5	0.0	14771.5
	% Fixture	85.3	0.0	85.3
Total	Lumens	17317.0	0.0	17317.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	201.4	1.2
10°-20°	558.7	3.2
20°-30°	972.9	5.6
30°-40°	1753.5	10.1
40°-50°	3477.8	20.1
50°-60°	4737.3	27.4
60°-70°	3781.3	21.8
70°-80°	1711.1	9.9
80°-90°	123.0	0.7
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°	17317.0	100.0
0°-180°	17317.0	100.0

Coefficient of Utilization



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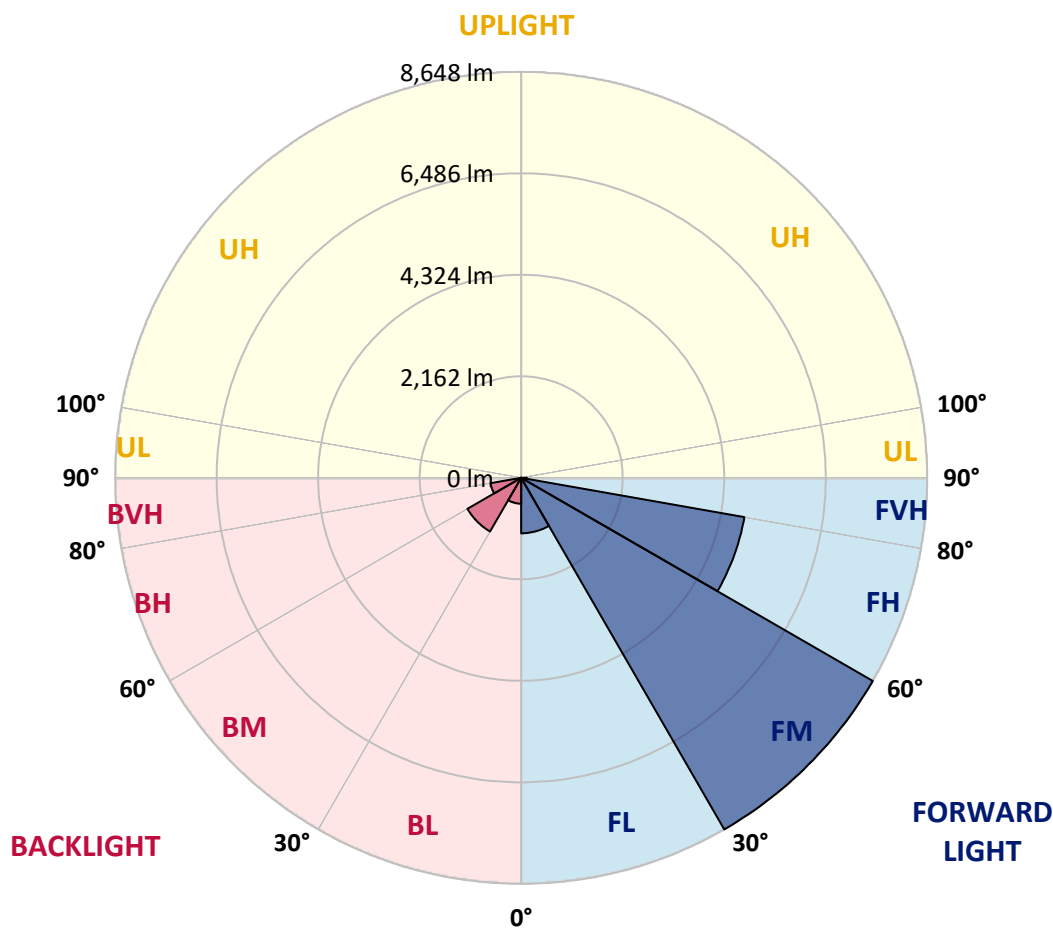
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1182.1	6.8			
FM	(30°-60°)	8647.7	49.9			
FH	(60°-80°)	4827.9	27.9			G2/5000
FVH	(80°-90°)	113.9	0.7			G2/225
BL	(0°-30°)	550.9	3.2	B2/1000		
BM	(30°-60°)	1320.9	7.6	B2/2500		
BH	(60°-80°)	664.5	3.8	B2/1000		G2/1000
BVH	(80°-90°)	9.1	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	63°	65°	75°	85°
0°	2137.2	2137.2	2137.2	2137.2	2137.2	2137.2	2137.2	2137.2	2137.2	2137.2	2137.2
2.5°	2187.3	2181.3	2189.7	2186.1	2183.7	2178.9	2176.6	2174.2	2169.4	2165.8	2151.5
5°	2193.2	2189.7	2198.0	2205.2	2212.3	2219.4	2223.0	2227.8	2223.0	2213.5	2199.2
7.5°	2143.2	2140.8	2158.7	2180.1	2212.3	2239.7	2269.5	2286.2	2287.4	2283.8	2268.3
10°	2139.6	2133.7	2151.5	2177.8	2219.4	2268.3	2320.7	2356.4	2361.2	2376.7	2360.0
12.5°	2195.6	2189.7	2214.7	2243.3	2286.2	2337.4	2401.7	2451.8	2458.9	2480.3	2468.4
15°	2289.7	2281.4	2310.0	2346.9	2401.7	2460.1	2528.0	2573.3	2579.2	2605.4	2584.0
17.5°	2399.3	2391.0	2424.4	2463.7	2523.2	2603.1	2681.7	2731.7	2738.9	2755.5	2716.2
20°	2539.9	2529.2	2555.4	2591.1	2654.3	2749.6	2843.7	2915.2	2914.0	2914.0	2849.7
22.5°	2703.1	2686.4	2709.1	2737.7	2797.2	2912.8	3037.9	3122.5	3122.5	3089.1	2983.1
25°	2878.3	2861.6	2886.6	2912.8	2965.2	3096.3	3242.8	3347.6	3352.4	3295.2	3126.0
27.5°	3097.5	3076.0	3095.1	3126.0	3157.0	3290.5	3464.4	3585.9	3588.3	3500.1	3261.9
30°	3519.2	3458.4	3398.9	3365.5	3379.8	3512.0	3697.9	3832.5	3844.4	3722.9	3409.6
32.5°	4291.2	4279.3	4069.6	3795.6	3652.6	3750.3	3958.8	4120.8	4128.0	3971.9	3601.4
35°	5490.8	5476.5	5139.4	4617.6	4151.8	4069.6	4275.7	4467.5	4462.7	4286.4	3850.4
37.5°	6922.8	6909.7	6465.3	5767.2	5013.1	4552.1	4684.3	4885.6	4915.4	4684.3	4172.0
40°	8146.3	8097.5	7816.3	7143.2	6156.8	5352.6	5265.7	5399.1	5430.1	5156.1	4580.7
42.5°	9073.2	9031.5	8888.5	8468.0	7541.1	6536.8	5950.7	6001.9	6036.5	5707.7	5050.0
45°	9553.3	9543.7	9600.9	9561.6	8951.6	7990.2	6930.0	6716.7	6729.8	6318.8	5582.6
47.5°	9621.2	9616.4	9877.3	10246.6	10164.4	9629.5	8186.8	7607.8	7561.4	7008.6	6161.6
50°	9220.9	9211.4	9711.7	10403.9	10974.5	11006.7	9614.0	8612.1	8509.7	7722.2	6765.6
52.5°	7942.6	7940.2	8762.2	9914.2	11259.3	12212.3	11024.6	9715.3	9543.7	8477.5	7404.1
55°	6111.5	6155.6	7097.9	8459.6	10739.8	12792.5	12290.9	10940.0	10676.7	9237.6	7992.6
57.5°	4329.3	4393.6	5325.2	6538.0	9129.2	12449.4	13147.5	12167.0	11883.5	9995.3	8589.5
60°	2325.5	2382.7	3315.5	4762.9	6791.8	11169.9	13599.0	13232.1	12964.0	10714.8	9128.0
62.5°	1385.5	1404.6	1790.6	3074.8	4593.8	8533.5	13407.2	14043.4	13823.0	11318.8	9596.2
65°	994.8	998.3	1192.5	1877.5	2788.9	5184.7	12062.2	14431.8	14363.9	11773.9	9942.8
67.5°	837.5	835.1	916.1	1247.3	1900.2	2597.1	9244.7	13882.6	14170.9	12062.2	10139.4
70°	718.4	721.9	817.3	913.7	1428.4	1470.1	4596.1	12087.2	12702.0	12138.5	10127.5
72.5°	534.9	546.8	635.0	832.7	1078.2	1011.4	1586.9	8962.4	10073.9	11436.8	9602.1
75°	377.7	383.6	446.7	700.5	804.1	736.2	810.1	4633.1	6057.9	8768.2	7859.2
77.5°	290.7	301.4	338.3	489.6	792.2	517.0	495.6	1603.5	2463.7	5296.7	5388.4
80°	157.3	176.3	244.2	353.8	556.4	365.7	245.4	638.6	835.1	2476.8	2077.7
82.5°	81.0	90.5	170.4	254.9	316.9	319.3	121.5	265.7	344.3	764.8	284.7
85°	32.2	39.3	114.4	140.6	163.2	157.3	54.8	107.2	123.9	212.1	87.0
87.5°	7.1	11.9	41.7	32.2	31.0	33.4	13.1	25.0	23.8	25.0	15.5
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°	2137.2	2137.2	2137.2	2137.2	2137.2	2137.2	2137.2	2137.2	2137.2	2137.2	2137.2
2.5°	2150.3	2145.6	2132.5	2118.2	2101.5	2092.0	2086.0	2084.8	2076.5	2070.5	2076.5
5°	2186.1	2181.3	2156.3	2126.5	2094.4	2069.3	2045.5	2024.1	1993.1	1987.1	1984.8
7.5°	2257.6	2244.5	2204.0	2163.5	2102.7	2030.0	1941.9	1840.6	1750.1	1722.7	1709.6
10°	2345.7	2327.9	2276.6	2205.2	2070.5	1872.8	1659.5	1461.8	1304.5	1260.4	1243.7
12.5°	2445.8	2430.3	2362.4	2230.2	1935.9	1577.3	1250.9	1005.5	853.0	814.9	804.1
15°	2564.9	2542.3	2448.2	2192.0	1695.3	1198.5	858.9	713.6	658.8	651.7	644.5
17.5°	2691.2	2654.3	2524.4	2055.0	1371.2	851.8	663.6	621.9	598.0	590.9	587.3
20°	2806.8	2759.1	2569.7	1847.8	1024.5	663.6	594.5	567.1	545.6	537.3	532.5
22.5°	2922.3	2854.4	2569.7	1565.4	768.4	588.5	545.6	520.6	495.6	484.9	478.9
25°	3042.7	2952.1	2524.4	1250.9	618.3	539.7	499.2	471.8	450.3	437.2	432.5
27.5°	3159.4	3034.3	2420.8	953.1	550.4	496.8	456.3	430.1	409.8	400.3	400.3
30°	3270.2	3115.3	2275.4	723.1	506.3	455.1	417.0	394.3	374.1	364.5	365.7
32.5°	3420.3	3217.8	2120.6	593.3	468.2	415.8	381.2	359.8	341.9	334.8	334.8
35°	3628.8	3369.1	1987.1	582.6	436.0	383.6	349.1	328.8	310.9	305.0	305.0
37.5°	3924.2	3613.3	1916.8	654.0	409.8	355.0	322.9	301.4	284.7	280.0	278.8
40°	4288.8	3944.5	1955.0	725.5	391.9	330.0	299.0	277.6	263.3	257.3	256.1
42.5°	4721.2	4353.1	2165.8	780.3	380.0	308.6	276.4	252.6	243.0	240.6	240.6
45°	5218.0	4802.2	2488.7	838.7	361.0	288.3	253.8	235.9	228.7	227.5	226.4
47.5°	5782.7	5295.5	2862.8	911.4	341.9	269.2	235.9	224.0	218.0	215.6	215.6
50°	6342.6	5792.2	3247.6	951.9	326.4	251.4	221.6	212.1	207.3	206.1	206.1
52.5°	6928.8	6303.3	3558.5	913.7	313.3	237.1	209.7	202.5	197.8	196.6	196.6
55°	7487.5	6716.7	3612.1	775.6	287.1	222.8	196.6	193.0	187.0	187.0	185.8
57.5°	7968.8	6924.0	3233.3	569.5	260.9	201.3	183.5	179.9	175.1	173.9	172.7
60°	8410.8	6864.4	2495.8	383.6	232.3	179.9	166.8	164.4	159.6	153.7	152.5
62.5°	8659.8	6602.3	1707.2	250.2	203.7	157.3	147.7	146.5	135.8	123.9	121.5
65°	8753.9	6063.9	1065.0	182.3	170.4	134.6	127.5	125.1	109.6	96.5	95.3
67.5°	8671.7	5177.5	537.3	144.2	134.6	112.0	104.8	104.8	94.1	82.2	81.0
70°	8342.9	3881.4	226.4	115.6	103.6	85.8	85.8	90.5	79.8	66.7	65.5
72.5°	7629.3	2611.4	120.3	88.2	77.4	60.8	70.3	73.9	63.1	50.0	50.0
75°	6065.1	1592.8	83.4	65.5	48.8	42.9	53.6	56.0	42.9	33.4	32.2
77.5°	4148.2	914.9	56.0	41.7	31.0	25.0	36.9	34.5	22.6	15.5	16.7
80°	1821.5	381.2	32.2	19.1	11.9	9.5	13.1	9.5	7.1	4.8	4.8
82.5°	213.2	89.3	11.9	7.1	4.8	2.4	1.2	0.0	0.0	0.0	0.0
85°	44.1	10.7	6.0	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.3	2.4	1.2	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)