

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: P944668

Luminaire Tested: **GALN-SB9D-722-U-T4FT-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944668
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-SB9D-722-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 900mA 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: 57973 lumens
Efficiency: N/A
Efficacy: 88.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

Input Watts (W): 658
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

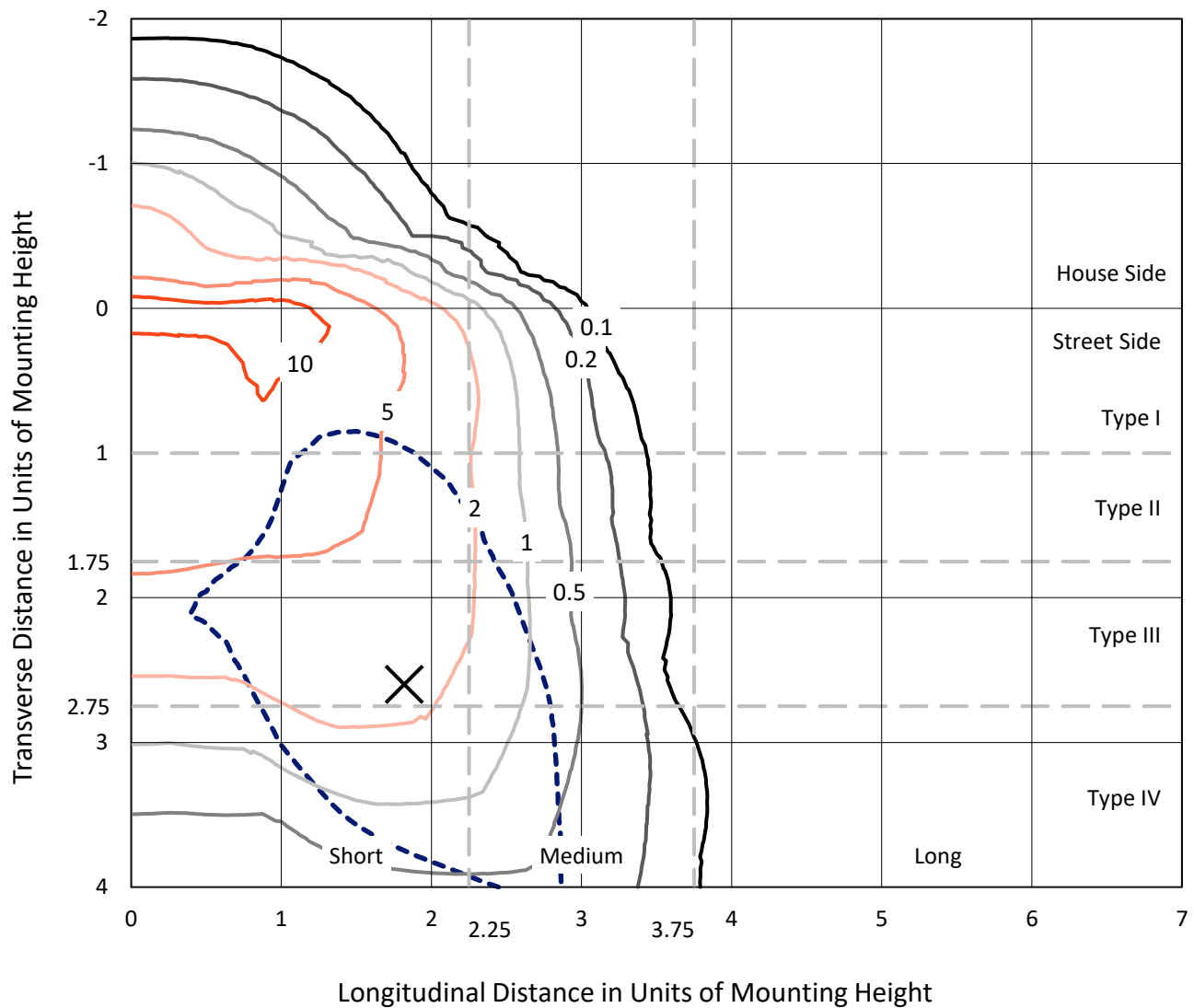


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Iso-Footcandle Lines of Horizontal Illumination

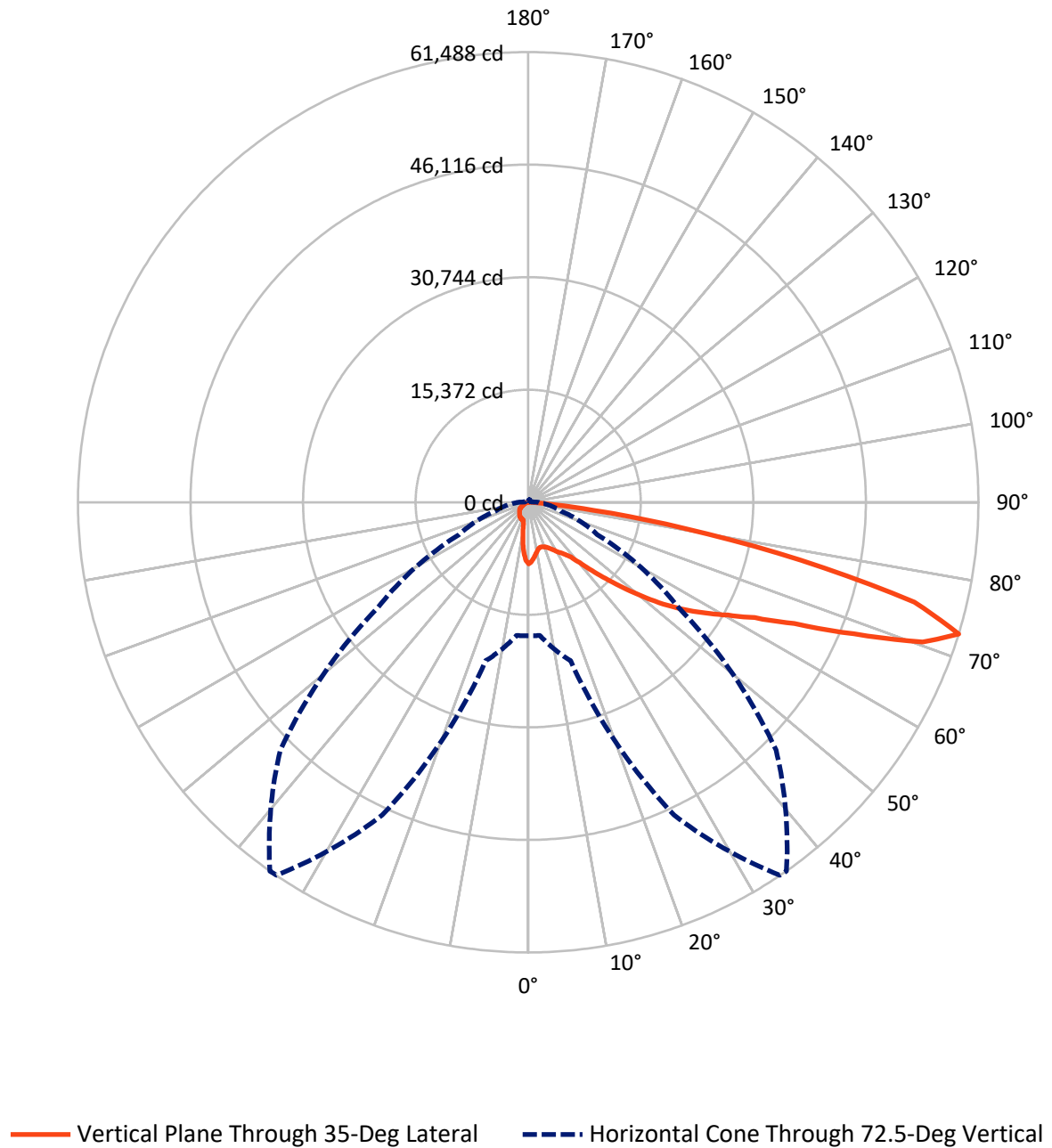
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.4 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6524.6	0.0	6524.6
	% Fixture	11.3	0.0	11.3
Street Side	Lumens	51448.4	0.0	51448.4
	% Fixture	88.7	0.0	88.7
Total	Lumens	57973.0	0.0	57973.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	690.4	1.2
10°-20°	1615.2	2.8
20°-30°	2623.9	4.5
30°-40°	4377.9	7.6
40°-50°	8283.1	14.3
50°-60°	13161.7	22.7
60°-70°	16282.0	28.1
70°-80°	10121.0	17.5
80°-90°	817.9	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°	57973.0	100.0
0°-180°	57973.0	100.0

Coefficient of Utilization



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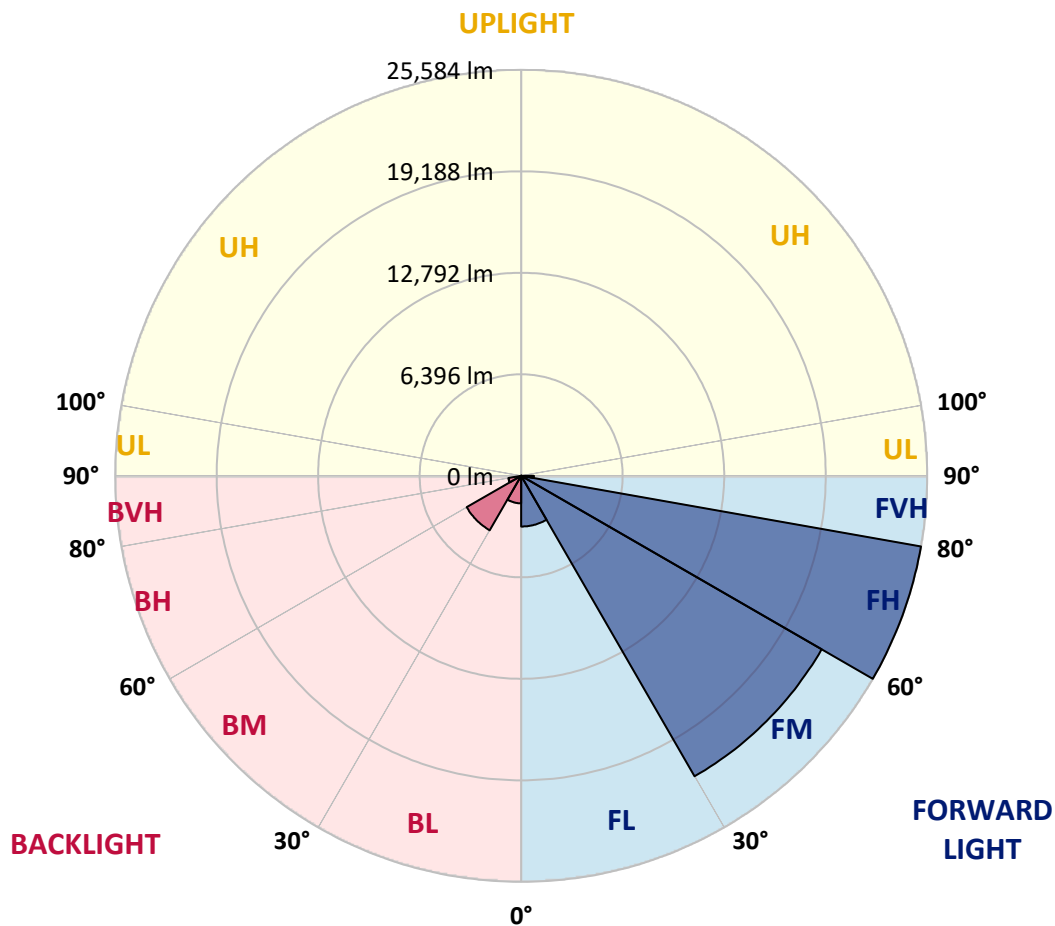
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3195.8	5.5			
FM	(30°-60°)	21861.6	37.7			
FH	(60°-80°)	25584.2	44.1			G5
FVH	(80°-90°)	806.8	1.4			G5
BL	(0°-30°)	1733.7	3.0	B3/2500		
BM	(30°-60°)	3961.0	6.8	B3/5000		
BH	(60°-80°)	818.7	1.4	B2/1000		G2/1000
BVH	(80°-90°)	11.1	0.0			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	34°	35°	45°	55°	65°	75°	85°
0°	8402.2	8402.2	8402.2	8402.2	8402.2	8402.2	8402.2	8402.2	8402.2	8402.2	8402.2
2.5°	8028.4	8096.4	8109.1	8130.4	8130.4	8155.9	8198.3	8257.8	8355.5	8406.5	8440.5
5°	7399.7	7450.7	7514.4	7565.4	7663.1	7675.9	7841.5	8002.9	8228.1	8398.0	8516.9
7.5°	6766.8	6826.3	6911.2	7034.4	7161.9	7200.1	7450.7	7722.6	8079.4	8398.0	8597.6
10°	6320.8	6325.0	6401.5	6524.7	6728.6	6775.3	7081.2	7467.7	7913.7	8347.0	8674.1
12.5°	6070.2	6099.9	6133.9	6227.3	6422.7	6452.5	6779.6	7234.1	7748.1	8317.3	8763.3
15°	6070.2	6091.4	6112.6	6159.4	6316.5	6342.0	6630.9	7085.4	7663.1	8330.0	8907.7
17.5°	6133.9	6167.9	6150.9	6206.1	6371.8	6388.8	6643.6	7042.9	7658.9	8410.7	9128.6
20°	6286.8	6312.3	6278.3	6312.3	6478.0	6511.9	6775.3	7123.6	7731.1	8550.9	9404.7
22.5°	6528.9	6541.7	6461.0	6486.5	6656.4	6698.8	7004.7	7353.0	7905.2	8776.0	9774.3
25°	6834.8	6860.3	6737.1	6766.8	6928.2	6979.2	7331.8	7697.1	8181.3	9086.1	10245.8
27.5°	7187.3	7200.1	7093.9	7089.6	7297.8	7370.0	7726.8	8121.9	8550.9	9476.9	10840.5
30°	7590.9	7629.1	7527.2	7510.2	7773.6	7833.0	8185.6	8644.4	9094.6	10063.1	11685.8
32.5°	7909.5	7939.2	7879.7	7922.2	8189.8	8236.6	8742.1	9383.5	9948.4	10895.7	12837.0
35°	8368.2	8385.2	8249.3	8325.8	8631.6	8750.6	9502.4	10420.0	11023.1	11940.7	14340.7
37.5°	10029.2	10029.2	9451.4	9073.4	9366.5	9472.7	10543.1	11724.0	12348.5	13342.5	16235.3
40°	12327.2	12289.0	11443.7	10670.6	10632.3	10840.5	12025.6	13368.0	14060.4	15024.6	18367.7
42.5°	14778.2	14718.8	13567.6	12803.0	12675.6	12747.8	13737.5	15394.2	16099.3	17076.3	20661.5
45°	16953.1	16936.1	15882.7	14854.7	14625.3	14854.7	15874.2	17764.5	18270.0	19297.9	22951.1
47.5°	18775.5	18775.5	18006.6	17335.4	17216.5	17352.4	18767.0	20393.9	20347.2	21664.0	25181.2
50°	20873.9	20856.9	20126.3	19837.4	19960.6	20151.8	22097.3	23163.5	22496.6	23987.6	27173.4
52.5°	22343.6	22445.6	22195.0	22148.2	22776.9	23108.3	25478.6	25873.6	24420.8	26192.2	28664.4
55°	23507.6	23626.5	23915.4	24242.4	25453.1	25886.3	28753.6	28443.5	26030.8	28103.7	29522.5
57.5°	25155.7	24985.8	25431.8	26077.5	28035.8	28558.2	31926.8	30869.1	27326.4	29654.2	29616.0
60°	27156.5	27181.9	27258.4	28074.0	30614.2	31285.4	35053.2	33162.9	28158.9	30605.7	28579.5
62.5°	29560.7	29599.0	29756.1	31009.2	34076.2	34709.1	38383.5	35040.4	28541.3	30338.1	25903.3
65°	29395.1	29556.5	31310.8	35596.9	39339.3	39963.7	42270.3	36357.3	27963.5	27891.3	21090.5
67.5°	26778.4	27041.8	29977.0	41076.6	47274.2	47970.9	46968.4	36616.4	25470.1	21689.5	13758.8
70°	23346.1	23439.6	26969.5	46004.1	56462.3	57167.5	51173.8	33766.1	19327.7	12097.9	6163.6
72.5°	18231.7	18253.0	22394.6	47146.8	61449.3	61487.5	47873.2	25066.5	10394.5	4647.1	2140.9
75°	13023.9	12896.4	14999.1	38234.8	54062.3	54495.6	35890.0	11758.0	3971.7	2196.1	1066.2
77.5°	6983.5	7123.6	8487.2	22675.0	37347.0	38086.2	19582.6	3389.8	2022.0	1495.2	705.1
80°	2157.9	2276.8	3479.0	10381.7	21154.3	21600.3	7259.6	1508.0	1410.3	1066.2	463.0
82.5°	679.7	705.1	1622.7	4362.5	8780.3	8984.2	2102.7	853.8	964.3	705.1	271.9
85°	195.4	199.6	722.1	1626.9	2170.6	2213.1	590.5	331.3	552.2	437.5	140.2
87.5°	21.2	68.0	271.9	271.9	191.2	186.9	63.7	72.2	157.2	55.2	25.5
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°	8402.2	8402.2	8402.2	8402.2	8402.2	8402.2	8402.2	8402.2	8402.2	8402.2	8402.2
2.5°	8419.2	8423.5	8368.2	8274.8	8172.8	8087.9	7981.7	7896.7	7837.3	7820.3	7850.0
5°	8478.7	8449.0	8291.8	8007.2	7667.4	7374.3	7047.2	6788.1	6618.1	6545.9	6571.4
7.5°	8567.9	8482.9	8138.9	7578.2	6928.2	6350.5	5764.3	5309.8	5020.9	4876.5	4897.8
10°	8644.4	8474.4	7884.0	6958.0	5964.0	5088.9	4298.8	3750.8	3445.0	3300.6	3304.8
12.5°	8716.6	8470.2	7552.7	6223.1	4876.5	3806.1	3071.2	2799.3	2714.4	2684.6	2676.1
15°	8852.5	8482.9	7136.4	5382.0	3793.3	2875.8	2608.2	2603.9	2620.9	2612.4	2608.2
17.5°	9039.4	8495.7	6664.9	4490.0	2926.8	2536.0	2523.2	2561.4	2586.9	2574.2	2569.9
20°	9281.5	8546.7	6163.6	3606.4	2514.7	2451.0	2480.7	2514.7	2536.0	2514.7	2510.5
22.5°	9621.4	8635.9	5615.6	2897.0	2383.0	2400.0	2425.5	2463.7	2485.0	2455.3	2451.0
25°	10037.7	8776.0	5076.2	2519.0	2319.3	2340.6	2378.8	2421.3	2446.8	2417.0	2412.8
27.5°	10577.1	9001.2	4579.2	2434.0	2255.6	2268.3	2323.6	2387.3	2421.3	2383.0	2383.0
30°	11358.7	9370.7	4150.1	2472.2	2217.4	2187.6	2264.1	2353.3	2391.5	2357.6	2353.3
32.5°	12395.2	9893.2	3886.8	2531.7	2200.4	2094.2	2166.4	2281.1	2344.8	2323.6	2323.6
35°	13754.5	10687.6	3784.8	2599.7	2187.6	1996.5	2047.5	2170.6	2281.1	2302.3	2302.3
37.5°	15402.7	11792.0	3814.6	2629.4	2149.4	1915.8	1941.3	2047.5	2191.9	2259.9	2276.8
40°	17276.0	13079.1	3984.5	2599.7	2106.9	1847.8	1852.1	1932.8	2060.2	2162.2	2196.1
42.5°	19208.7	14582.8	4298.8	2489.2	2068.7	1788.3	1775.6	1830.8	1915.8	1988.0	2017.7
45°	21048.1	16129.1	4608.9	2336.3	2022.0	1728.9	1699.1	1720.4	1737.4	1767.1	1784.1
47.5°	22653.7	17216.5	4519.7	2196.1	1958.3	1660.9	1609.9	1601.4	1550.5	1546.2	1542.0
50°	23762.4	17454.4	4014.2	2056.0	1864.8	1584.4	1503.7	1452.8	1363.6	1321.1	1325.3
52.5°	24115.0	16515.6	3279.3	1915.8	1711.9	1482.5	1367.8	1287.1	1176.7	1138.4	1134.2
55°	23647.7	14676.3	2620.9	1745.9	1499.5	1346.6	1219.1	1112.9	1023.7	977.0	977.0
57.5°	22505.1	12335.7	2072.9	1546.2	1274.4	1193.6	1066.2	960.0	883.6	836.8	828.3
60°	20610.5	9795.5	1639.7	1308.3	1087.4	1028.0	896.3	828.3	760.4	705.1	692.4
62.5°	17734.7	6991.9	1287.1	1036.5	909.0	841.1	764.6	713.6	632.9	556.5	543.7
65°	13839.5	4277.6	994.0	760.4	730.6	696.6	649.9	603.2	505.5	429.0	416.3
67.5°	8729.3	2026.2	709.4	573.5	577.7	560.7	539.5	501.2	429.0	361.1	352.6
70°	3844.3	981.3	467.3	437.5	429.0	429.0	446.0	433.3	365.3	301.6	288.9
72.5°	1308.3	526.7	348.3	331.3	310.1	305.8	373.8	361.1	293.1	233.6	220.9
75°	683.9	352.6	254.9	237.9	186.9	225.1	297.3	280.4	208.1	152.9	140.2
77.5°	446.0	250.6	174.2	152.9	106.2	148.7	220.9	195.4	123.2	76.5	68.0
80°	280.4	165.7	101.9	72.2	51.0	80.7	118.9	85.0	46.7	17.0	12.7
82.5°	148.7	85.0	38.2	25.5	21.2	25.5	29.7	21.2	8.5	0.0	0.0
85°	59.5	29.7	12.7	8.5	4.2	0.0	8.5	4.2	0.0	0.0	0.0
87.5°	21.2	4.2	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)