

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: P944492

Luminaire Tested: **GALN-SB9C-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P944492
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-9)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB9C-722-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 55858 lumens
Efficiency: N/A
Efficacy: 124.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 449.8
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

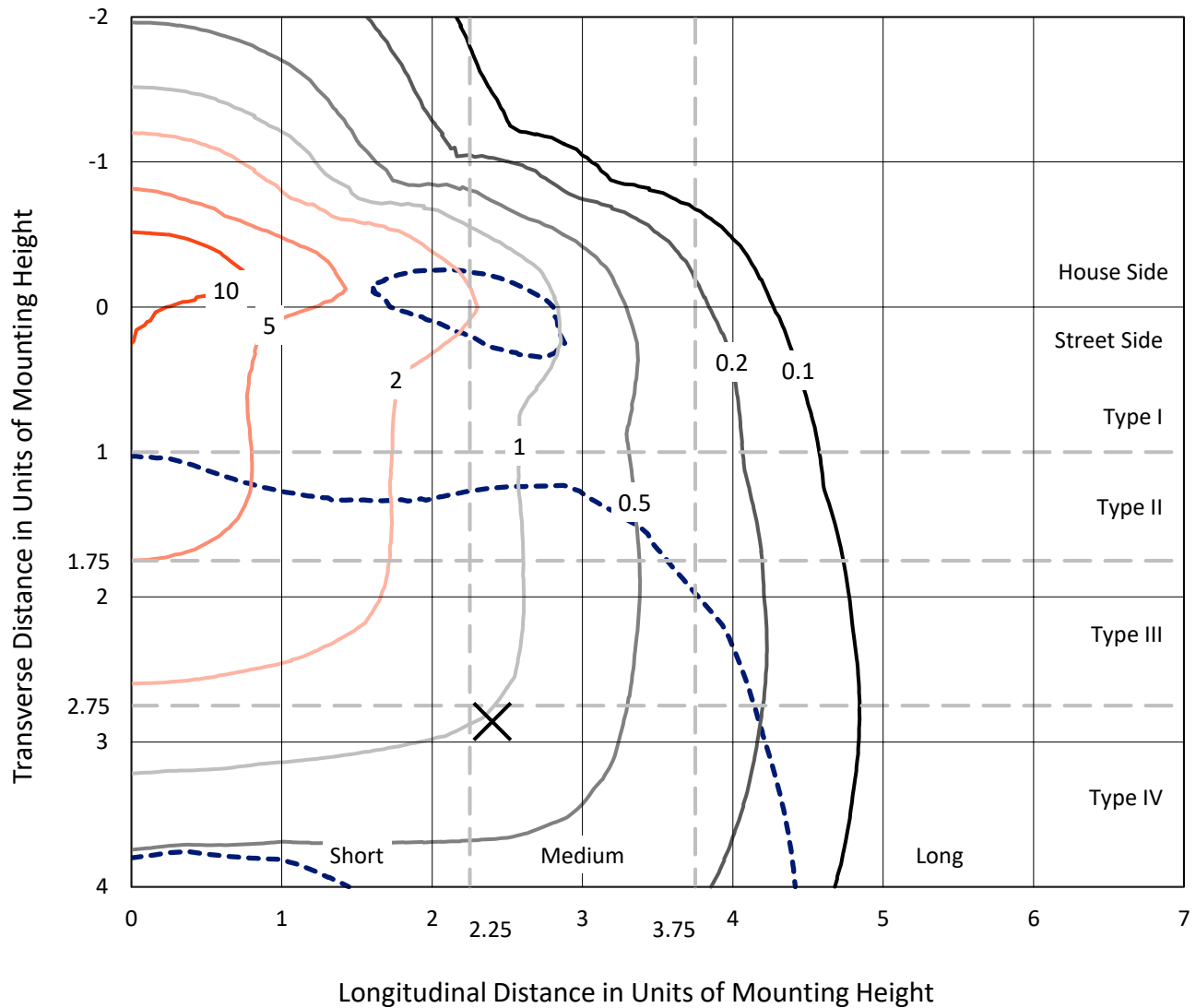


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd

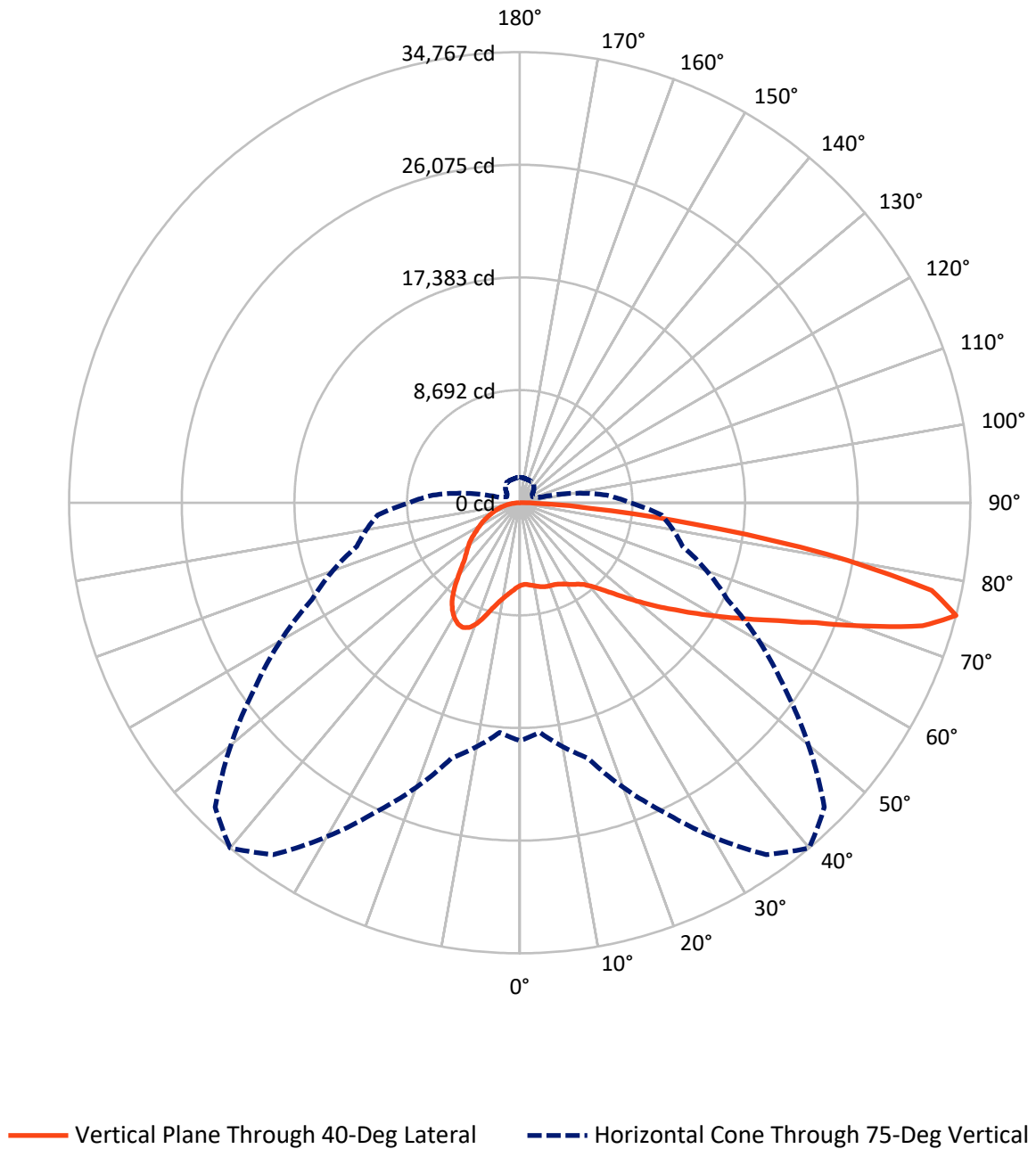


Based on 25 foot mounting height. Maximum calculated value = 13.2 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17306.7	0.0	17306.7
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	38551.3	0.0	38551.3
	% Fixture	69.0	0.0	69.0
Total	Lumens	55858.0	0.0	55858.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	637.6	1.1
10°-20°	2140.7	3.8
20°-30°	3908.7	7.0
30°-40°	5543.6	9.9
40°-50°	7485.5	13.4
50°-60°	10070.1	18.0
60°-70°	12781.2	22.9
70°-80°	11599.7	20.8
80°-90°	1690.9	3.0
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°	55858.0	100.0
0°-180°	55858.0	100.0

Coefficient of Utilization



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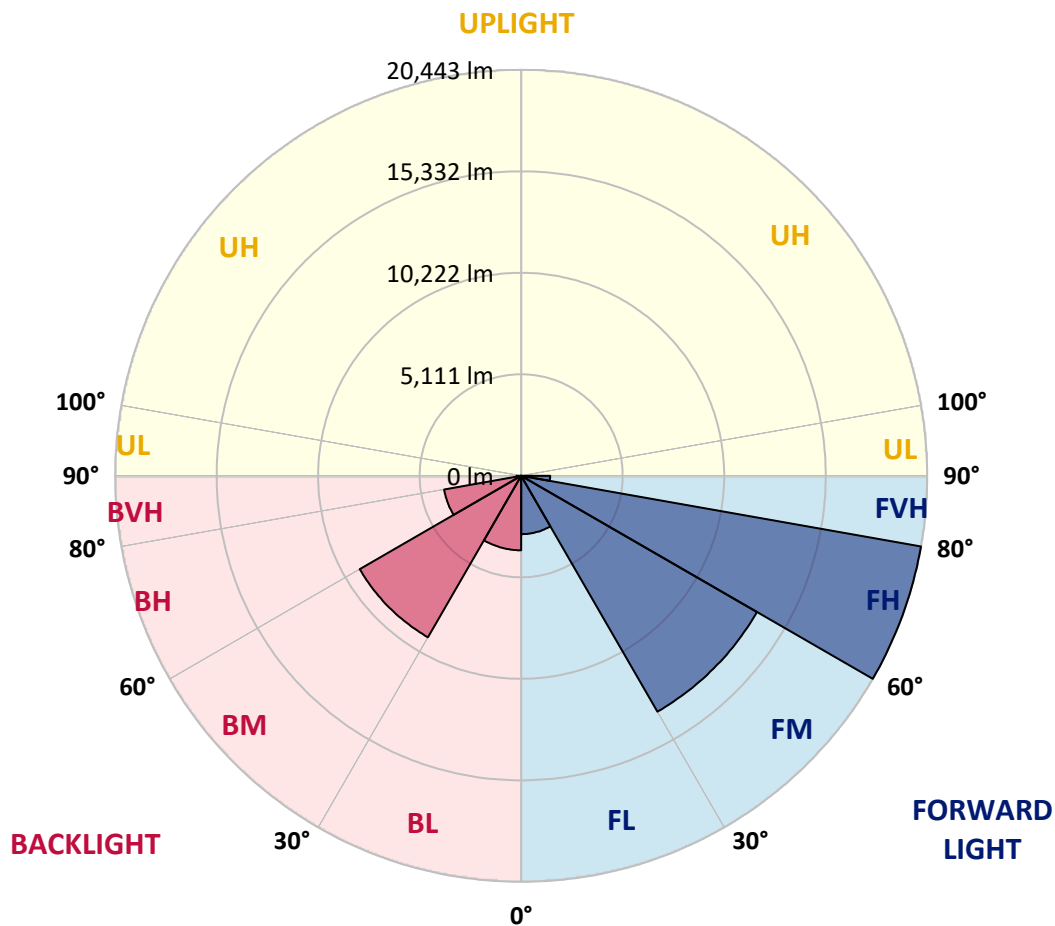
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2938.2	5.3			
FM	(30°-60°)	13711.9	24.5			
FH	(60°-80°)	20443.2	36.6			G5
FVH	(80°-90°)	1458.1	2.6			G5
BL	(0°-30°)	3748.8	6.7	B4/5000		
BM	(30°-60°)	9387.3	16.8	B5		
BH	(60°-80°)	3937.8	7.0	B4/5000		G4/5000
BVH	(80°-90°)	232.8	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	6387.4	6387.4	6387.4	6387.4	6387.4	6387.4	6387.4	6387.4	6387.4	6387.4	6387.4
2.5°	6289.7	6325.2	6316.3	6304.5	6304.5	6307.4	6304.5	6325.2	6346.0	6366.7	6399.3
5°	6354.8	6390.4	6372.6	6357.8	6346.0	6343.0	6334.1	6331.1	6343.0	6369.7	6414.1
7.5°	6482.2	6517.8	6491.1	6464.5	6440.8	6428.9	6417.1	6399.3	6390.4	6405.2	6467.4
10°	6624.4	6660.0	6627.4	6580.0	6541.5	6526.7	6514.8	6497.1	6485.2	6494.1	6562.2
12.5°	6766.7	6802.2	6757.8	6692.6	6642.2	6633.3	6618.5	6612.6	6609.6	6606.7	6674.8
15°	6900.0	6929.6	6873.3	6796.3	6743.0	6728.1	6713.3	6722.2	6737.0	6754.8	6831.8
17.5°	7003.7	7033.3	6950.3	6849.6	6799.2	6793.3	6784.4	6814.1	6855.5	6900.0	6994.8
20°	7098.5	7128.1	7021.4	6885.2	6825.9	6825.9	6828.9	6891.1	6950.3	7015.5	7145.9
22.5°	7231.8	7255.5	7125.1	6938.5	6852.6	6858.5	6882.2	6944.4	7018.5	7107.4	7288.1
25°	7430.3	7448.1	7288.1	7039.2	6941.4	6959.2	6980.0	7009.6	7080.7	7184.4	7427.3
27.5°	7750.2	7765.1	7554.7	7217.0	7068.8	7098.5	7128.1	7107.4	7139.9	7228.8	7539.9
30°	8200.6	8209.5	7942.8	7495.5	7285.1	7299.9	7305.9	7219.9	7157.7	7228.8	7619.9
32.5°	8733.8	8730.9	8413.9	7833.2	7531.0	7516.2	7465.8	7297.0	7151.8	7214.0	7691.0
35°	9560.4	9527.8	9119.0	8307.2	7809.5	7717.7	7599.2	7382.9	7181.4	7199.2	7753.2
37.5°	10929.2	10828.4	10262.6	9083.4	8224.3	7990.2	7815.4	7522.1	7246.6	7193.3	7827.3
40°	12472.7	12345.3	11723.1	10147.0	8846.4	8470.2	8188.7	7720.6	7353.3	7219.9	7936.9
42.5°	14303.6	14122.9	13453.3	11400.2	9634.5	9089.4	8665.7	7972.4	7510.3	7305.9	8085.0
45°	16552.2	16312.3	15364.2	12813.4	10627.0	9901.1	9335.3	8354.6	7750.2	7471.8	8307.2
47.5°	18824.6	18883.8	17535.8	14431.0	11817.9	10902.5	10173.7	8929.4	8099.8	7738.4	8665.7
50°	21239.1	21280.6	19695.6	16223.4	13168.9	12034.2	11115.8	9572.3	8585.7	8117.6	9201.9
52.5°	23123.4	23129.3	21656.8	18098.7	14576.2	13278.5	12132.0	10307.0	9148.6	8621.3	9915.9
55°	24302.5	24287.7	23031.5	19873.3	16193.8	14585.0	13257.8	11142.5	9835.9	9213.8	10813.6
57.5°	25158.7	25114.2	23979.6	21399.1	17918.0	16128.6	14531.7	12090.5	10647.7	9918.9	11995.7
60°	25484.6	25457.9	24622.4	22717.5	19731.1	17835.1	16001.2	13151.1	11569.1	10751.4	13515.5
62.5°	25609.0	25659.4	25253.5	23994.4	21671.7	19725.2	17615.8	14419.1	12606.0	11693.5	15118.3
65°	26047.5	26139.3	26056.4	25665.3	23864.0	21938.3	19757.8	15927.1	13737.7	12703.8	16792.2
67.5°	26915.5	27007.4	27042.9	27665.1	26542.2	24696.5	22430.1	17805.4	15062.0	13752.5	18051.3
70°	26894.8	26868.1	27496.2	29256.0	29895.9	28515.3	26032.7	20116.3	16641.1	14623.6	18211.3
72.5°	24480.2	24266.9	25751.2	29238.2	32686.7	32503.0	30432.2	23096.7	18003.9	14730.2	15802.7
75°	18365.4	17796.5	20418.5	26349.7	33151.9	34766.5	33228.9	24945.4	17681.0	13014.8	10997.3
77.5°	7853.9	7282.2	10372.2	19506.0	29670.8	32500.1	30663.3	21763.5	14114.0	8606.4	5400.9
80°	2056.1	2053.1	3134.5	8843.5	20178.5	24000.3	21055.4	14054.7	8064.3	3075.2	1490.2
82.5°	850.3	829.5	1152.5	3439.6	9859.6	13468.1	10991.4	6268.9	2912.3	832.5	494.8
85°	317.0	314.0	559.9	1188.0	3478.1	5554.9	4020.3	1602.8	725.8	405.9	222.2
87.5°	88.9	85.9	121.5	411.8	847.3	1285.8	687.3	263.7	204.4	160.0	65.2
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°	6387.4	6387.4	6387.4	6387.4	6387.4	6387.4	6387.4	6387.4	6387.4	6387.4	6387.4
2.5°	6408.2	6423.0	6449.7	6470.4	6497.1	6526.7	6568.2	6594.8	6621.5	6639.3	6627.4
5°	6434.8	6467.4	6535.6	6603.7	6683.7	6757.8	6843.7	6905.9	6956.3	6971.1	6977.0
7.5°	6494.1	6547.4	6663.0	6778.5	6905.9	7027.4	7151.8	7258.5	7344.4	7377.0	7379.9
10°	6597.8	6668.9	6831.8	6994.8	7163.6	7350.3	7510.3	7664.3	7785.8	7836.2	7839.1
12.5°	6728.1	6817.0	7030.3	7255.5	7489.5	7747.3	7954.7	8144.3	8295.4	8363.5	8363.5
15°	6897.0	7012.6	7285.1	7587.3	7931.0	8289.4	8553.1	8763.5	8932.3	9015.3	9009.4
17.5°	7080.7	7234.7	7578.4	8034.7	8526.5	8997.5	9305.6	9459.7	9634.5	9714.5	9711.5
20°	7258.5	7448.1	7939.9	8603.5	9258.2	9758.9	10007.8	10049.3	10061.1	10070.0	10093.7
22.5°	7442.1	7696.9	8393.1	9320.4	10022.6	10369.2	10404.8	10227.0	9978.1	9862.6	9895.2
25°	7643.6	7981.3	8985.7	10111.5	10680.3	10721.8	10449.2	10016.7	9545.6	9329.3	9361.9
27.5°	7839.1	8310.2	9696.7	10866.9	11154.3	10789.9	10203.3	9590.0	9021.2	8793.1	8819.8
30°	8034.7	8686.4	10481.8	11527.6	11370.6	10621.0	9815.2	9130.8	8559.0	8319.1	8345.7
32.5°	8233.2	9124.9	11385.4	12004.6	11332.1	10262.6	9332.3	8615.3	8111.7	7859.9	7892.5
35°	8458.3	9664.1	12241.6	12265.3	11074.3	9735.2	8695.3	7999.1	7560.6	7359.2	7403.6
37.5°	8751.6	10348.5	12997.1	12330.5	10624.0	8962.0	7904.3	7270.3	6908.9	6817.0	6882.2
40°	9116.0	11172.1	13574.8	12226.8	9957.4	8022.8	7039.2	6532.6	6328.2	6348.9	6420.0
42.5°	9590.0	12093.5	13980.7	11960.1	9030.1	7054.0	6280.8	6055.6	6153.4	6236.3	6313.4
45°	10206.3	13050.4	14232.5	11506.9	7981.3	6233.4	5833.4	5886.8	5960.8	5969.7	6029.0
47.5°	10994.3	14019.2	14398.4	10822.5	6911.8	5655.7	5549.0	5560.9	5546.0	5483.8	5531.2
50°	11977.9	14961.3	14546.5	9915.9	6002.3	5294.2	5152.0	5110.5	4906.1	4704.7	4731.3
52.5°	13097.8	15826.4	14608.7	8790.1	5294.2	4992.0	4761.0	4500.2	4118.1	4055.8	4076.6
55°	14342.1	16626.3	14448.8	7406.6	4698.7	4603.9	4254.3	3940.3	3898.8	3845.5	3854.4
57.5°	15829.3	17488.4	14122.9	5863.1	4088.4	4150.6	3809.9	3845.5	3771.4	3688.5	3673.7
60°	17455.8	18380.2	13551.1	4455.8	3457.4	3584.8	3694.4	3691.4	3670.7	3602.6	3578.9
62.5°	18919.4	18966.8	12425.3	3413.0	2903.4	3146.3	3445.5	3442.6	3424.8	3386.3	3371.5
65°	19790.4	18877.9	10547.0	2687.1	2447.1	2784.9	3107.8	3131.5	3134.5	3131.5	3131.5
67.5°	19636.3	17838.0	7969.5	2139.0	2070.9	2417.5	2773.0	2805.6	2829.3	2835.2	2841.2
70°	17894.3	15553.8	5196.5	1706.5	1736.1	2094.6	2456.0	2488.6	2509.4	2533.1	2544.9
72.5°	13948.1	11435.8	2974.5	1380.6	1442.8	1816.1	2142.0	2180.5	2192.3	2236.8	2254.6
75°	8499.8	6725.2	1605.7	1087.3	1185.1	1552.4	1830.9	1875.3	1896.1	1949.4	1955.3
77.5°	4041.0	2912.3	915.5	847.3	954.0	1268.0	1546.5	1596.9	1540.6	1570.2	1546.5
80°	1365.8	1081.4	577.7	645.9	728.8	989.5	1238.4	1288.7	1170.2	1164.3	1152.5
82.5°	477.0	438.5	367.4	429.6	471.1	708.1	936.2	1001.4	871.0	868.1	826.6
85°	186.6	177.8	204.4	234.0	281.5	435.5	616.2	648.8	536.2	432.5	426.6
87.5°	38.5	41.5	50.4	53.3	85.9	151.1	222.2	272.6	216.3	183.7	168.9
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)