

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: P941272

Luminaire Tested: **GALN-SB4D-727-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941272
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-SB4D-727-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(4) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37498 lumens
Efficiency: N/A
Efficacy: 127.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 293.6
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



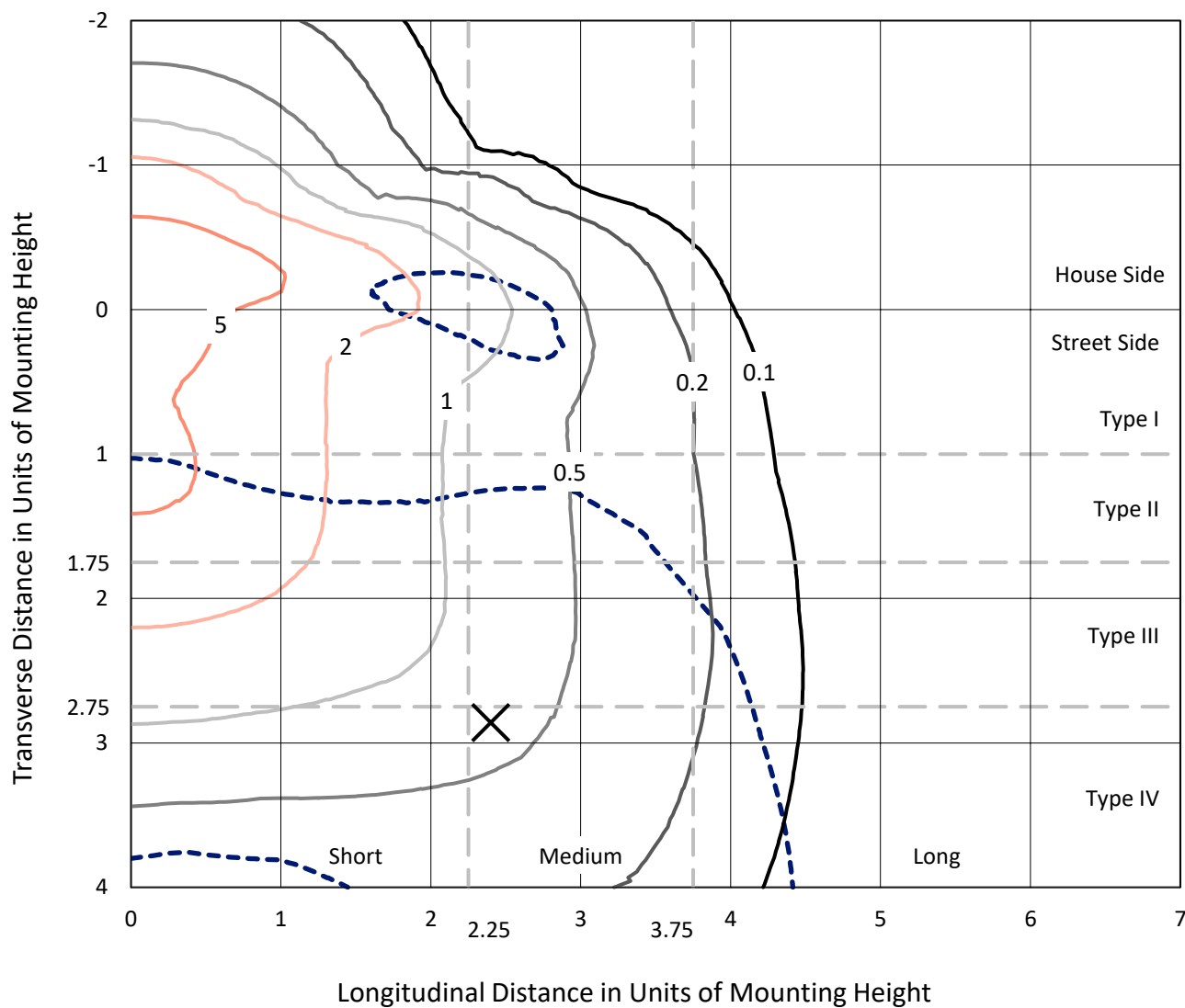
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



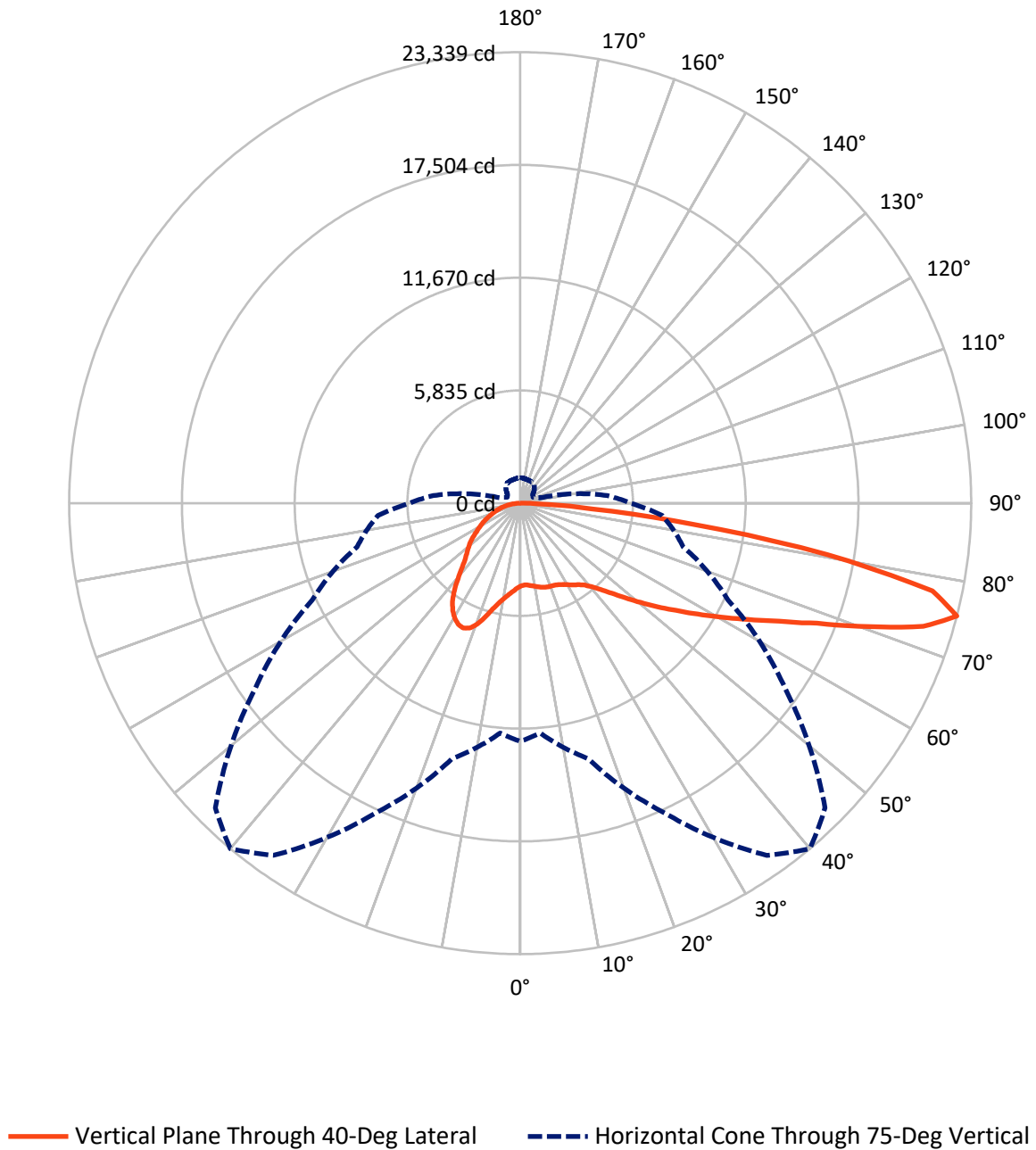
Based on 25 foot mounting height. Maximum calculated value = 8.9 fc

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	11618.1	0.0	11618.1
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	25879.9	0.0	25879.9
	% Fixture	69.0	0.0	69.0
Total	Lumens	37498.0	0.0	37498.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	428.0	1.1
10°-20°	1437.1	3.8
20°-30°	2624.0	7.0
30°-40°	3721.5	9.9
40°-50°	5025.1	13.4
50°-60°	6760.1	18.0
60°-70°	8580.1	22.9
70°-80°	7787.0	20.8
80°-90°	1135.1	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°	37498.0	100.0
0°-180°	37498.0	100.0

Coefficient of Utilization



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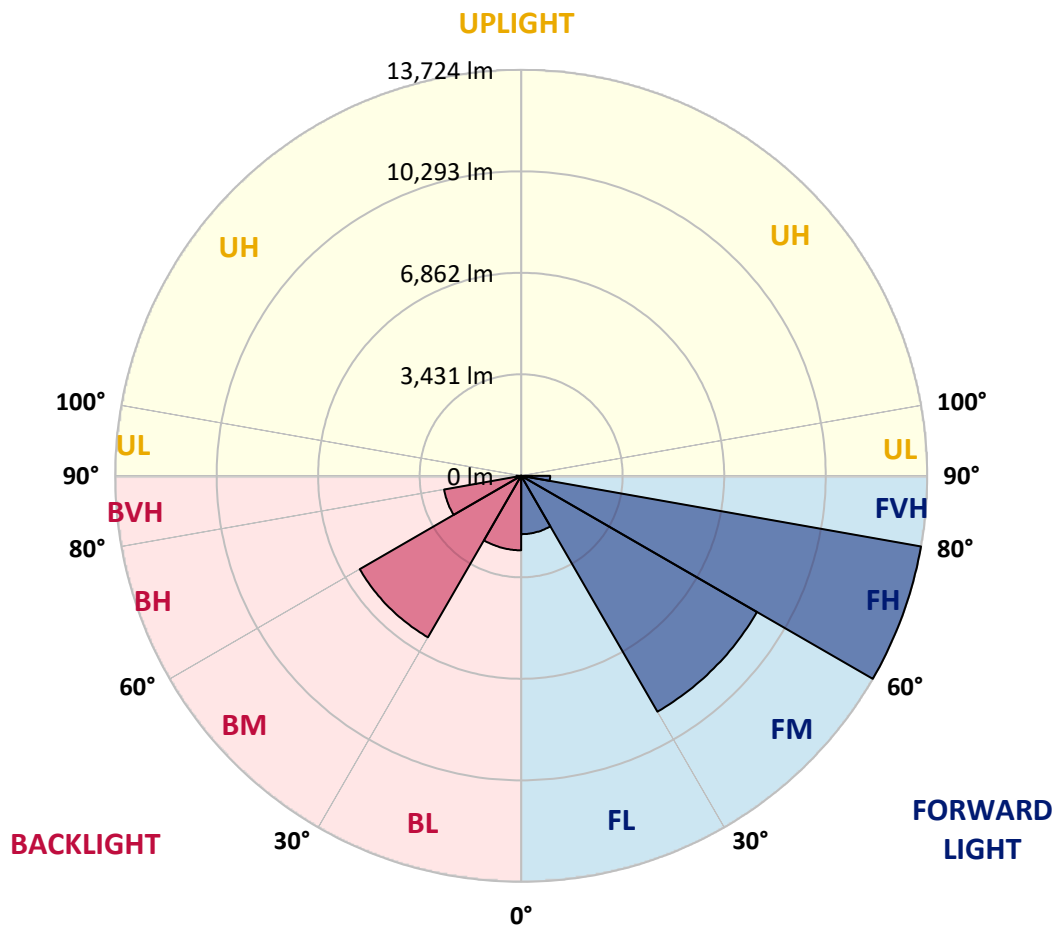
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1972.4	5.3			
FM	(30°-60°)	9204.9	24.5			
FH	(60°-80°)	13723.7	36.6			G5
FVH	(80°-90°)	978.8	2.6			G5
BL	(0°-30°)	2516.6	6.7	B4/5000		
BM	(30°-60°)	6301.8	16.8	B4/8500		
BH	(60°-80°)	2643.5	7.0	B4/5000		G4/5000
BVH	(80°-90°)	156.3	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type IV Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4287.9	4287.9	4287.9	4287.9	4287.9	4287.9	4287.9	4287.9	4287.9	4287.9	4287.9
2.5°	4222.3	4246.2	4240.2	4232.3	4232.3	4234.2	4232.3	4246.2	4260.1	4274.0	4295.9
5°	4266.1	4289.9	4278.0	4268.1	4260.1	4258.1	4252.1	4250.2	4258.1	4276.0	4305.8
7.5°	4351.6	4375.5	4357.6	4339.7	4323.7	4315.8	4307.8	4295.9	4289.9	4299.9	4341.6
10°	4447.1	4470.9	4449.0	4417.2	4391.4	4381.4	4373.5	4361.5	4353.6	4359.5	4405.3
12.5°	4542.5	4566.4	4536.6	4492.8	4459.0	4453.0	4443.1	4439.1	4437.1	4435.1	4480.9
15°	4632.0	4651.9	4614.1	4562.4	4526.6	4516.7	4506.7	4512.7	4522.6	4534.6	4586.3
17.5°	4701.6	4721.5	4665.8	4598.2	4564.4	4560.4	4554.5	4574.3	4602.2	4632.0	4695.7
20°	4765.3	4785.2	4713.6	4622.1	4582.3	4582.3	4584.3	4626.0	4665.8	4709.6	4797.1
22.5°	4854.8	4870.7	4783.2	4657.9	4600.2	4604.2	4620.1	4661.8	4711.6	4771.2	4892.6
25°	4988.0	5000.0	4892.6	4725.5	4659.9	4671.8	4685.7	4705.6	4753.3	4822.9	4986.0
27.5°	5202.8	5212.8	5071.6	4844.8	4745.4	4765.3	4785.2	4771.2	4793.1	4852.8	5061.6
30°	5505.1	5511.1	5332.1	5031.8	4890.6	4900.5	4904.5	4846.8	4805.0	4852.8	5115.3
32.5°	5863.1	5861.1	5648.3	5258.5	5055.6	5045.7	5011.9	4898.5	4801.1	4842.8	5163.0
35°	6418.0	6396.1	6121.7	5576.7	5242.6	5180.9	5101.4	4956.2	4821.0	4832.9	5204.8
37.5°	7336.8	7269.2	6889.4	6097.8	5521.0	5363.9	5246.6	5049.7	4864.7	4828.9	5254.5
40°	8373.0	8287.5	7869.9	6811.8	5938.7	5686.1	5497.2	5182.9	4936.3	4846.8	5328.1
42.5°	9602.1	9480.8	9031.3	7653.1	6467.7	6101.8	5817.4	5352.0	5041.7	4904.5	5427.6
45°	11111.7	10950.6	10314.1	8601.7	7134.0	6646.7	6266.8	5608.5	5202.8	5015.9	5576.7
47.5°	12637.1	12676.9	11772.0	9687.7	7933.5	7318.9	6829.7	5994.4	5437.5	5194.9	5817.4
50°	14258.0	14285.9	13221.8	10890.9	8840.4	8078.7	7462.1	6426.0	5763.7	5449.4	6177.3
52.5°	15522.9	15526.9	14538.4	12149.8	9785.1	8914.0	8144.3	6919.2	6141.5	5787.5	6656.7
55°	16314.5	16304.5	15461.3	13341.2	10871.0	9791.1	8900.1	7480.0	6603.0	6185.3	7259.3
57.5°	16889.3	16859.4	16097.7	14365.4	12028.5	10827.3	9755.3	8116.5	7147.9	6658.6	8052.8
60°	17108.0	17090.1	16529.3	15250.5	13245.7	11972.8	10741.7	8828.5	7766.4	7217.5	9073.1
62.5°	17191.6	17225.4	16952.9	16107.6	14548.4	13241.7	11825.7	9679.7	8462.5	7850.0	10149.1
65°	17485.9	17547.6	17491.9	17229.3	16020.1	14727.4	13263.6	10692.0	9222.3	8528.2	11272.8
67.5°	18068.6	18130.3	18154.2	18571.8	17818.0	16579.0	15057.5	11952.9	10111.3	9232.2	12118.0
70°	18054.7	18036.8	18458.5	19639.8	20069.4	19142.6	17476.0	13504.2	11171.3	9816.9	12225.4
72.5°	16433.8	16290.6	17287.0	19627.9	21942.9	21819.6	20429.4	15505.0	12086.2	9888.5	10608.5
75°	12328.8	11947.0	13707.1	17688.8	22255.2	23339.1	22306.9	16746.1	11869.4	8737.0	7382.6
77.5°	5272.4	4888.6	6962.9	13094.5	19918.3	21817.6	20584.5	14610.0	9474.8	5777.6	3625.7
80°	1380.3	1378.3	2104.2	5936.7	13546.0	16111.6	14134.7	9435.1	5413.6	2064.4	1000.4
82.5°	570.8	556.9	773.7	2309.0	6618.9	9041.3	7378.6	4208.4	1955.0	558.9	332.1
85°	212.8	210.8	375.9	797.5	2334.9	3729.1	2698.9	1076.0	487.3	272.5	149.2
87.5°	59.7	57.7	81.5	276.4	568.8	863.2	461.4	177.0	137.2	107.4	43.8
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°	4287.9	4287.9	4287.9	4287.9	4287.9	4287.9	4287.9	4287.9	4287.9	4287.9	4287.9
2.5°	4301.9	4311.8	4329.7	4343.6	4361.5	4381.4	4409.3	4427.2	4445.1	4457.0	4449.0
5°	4319.8	4341.6	4387.4	4433.1	4486.8	4536.6	4594.2	4636.0	4669.8	4679.7	4683.7
7.5°	4359.5	4395.3	4472.9	4550.5	4636.0	4717.5	4801.1	4872.7	4930.3	4952.2	4954.2
10°	4429.2	4476.9	4586.3	4695.7	4809.0	4934.3	5041.7	5145.1	5226.7	5260.5	5262.5
12.5°	4516.7	4576.3	4719.5	4870.7	5027.8	5200.8	5340.0	5467.3	5568.8	5614.5	5614.5
15°	4630.0	4707.6	4890.6	5093.4	5324.1	5564.8	5741.8	5883.0	5996.4	6052.1	6048.1
17.5°	4753.3	4856.8	5087.5	5393.7	5723.9	6040.1	6247.0	6350.4	6467.7	6521.4	6519.4
20°	4872.7	5000.0	5330.1	5775.6	6215.1	6551.3	6718.3	6746.2	6754.1	6760.1	6776.0
22.5°	4996.0	5167.0	5634.4	6256.9	6728.3	6961.0	6984.8	6865.5	6698.4	6620.9	6642.7
25°	5131.2	5357.9	6032.2	6787.9	7169.8	7197.6	7014.7	6724.3	6408.1	6262.9	6284.7
27.5°	5262.5	5578.7	6509.5	7295.1	7488.0	7243.4	6849.6	6437.9	6056.0	5902.9	5920.8
30°	5393.7	5831.3	7036.5	7738.6	7633.2	7130.0	6589.0	6129.6	5745.8	5584.7	5602.6
32.5°	5527.0	6125.6	7643.1	8058.8	7607.3	6889.4	6264.9	5783.6	5445.5	5276.4	5298.3
35°	5678.1	6487.6	8217.9	8233.8	7434.3	6535.3	5837.3	5369.9	5075.5	4940.3	4970.1
37.5°	5875.0	6947.0	8725.1	8277.6	7132.0	6016.3	5306.2	4880.6	4638.0	4576.3	4620.1
40°	6119.7	7499.9	9112.9	8208.0	6684.5	5385.8	4725.5	4385.4	4248.2	4262.1	4309.8
42.5°	6437.9	8118.5	9385.4	8029.0	6062.0	4735.4	4216.3	4065.2	4130.8	4186.5	4238.2
45°	6851.6	8760.9	9554.4	7724.7	5357.9	4184.5	3916.0	3951.8	4001.6	4007.5	4047.3
47.5°	7380.6	9411.2	9665.8	7265.2	4640.0	3796.7	3725.1	3733.1	3723.1	3681.3	3713.2
50°	8040.9	10043.7	9765.2	6656.7	4029.4	3554.1	3458.6	3430.8	3293.5	3158.3	3176.2
52.5°	8792.7	10624.4	9807.0	5900.9	3554.1	3351.2	3196.1	3021.1	2764.5	2722.7	2736.6
55°	9628.0	11161.4	9699.6	4972.1	3154.3	3090.7	2856.0	2645.2	2617.3	2581.5	2587.5
57.5°	10626.4	11740.1	9480.8	3935.9	2744.6	2786.4	2557.7	2581.5	2531.8	2476.1	2466.2
60°	11718.3	12338.8	9097.0	2991.2	2321.0	2406.5	2480.1	2478.1	2464.2	2418.4	2402.5
62.5°	12700.8	12732.6	8341.2	2291.1	1949.1	2112.2	2313.0	2311.0	2299.1	2273.2	2263.3
65°	13285.5	12672.9	7080.3	1803.9	1642.8	1869.5	2086.3	2102.2	2104.2	2102.2	2102.2
67.5°	13182.1	11974.8	5350.0	1435.9	1390.2	1622.9	1861.6	1883.4	1899.3	1903.3	1907.3
70°	12012.6	10441.4	3488.4	1145.6	1165.5	1406.1	1648.8	1670.6	1684.6	1700.5	1708.4
72.5°	9363.5	7676.9	1996.8	926.8	968.6	1219.2	1437.9	1463.8	1471.7	1501.6	1513.5
75°	5706.0	4514.7	1078.0	729.9	795.5	1042.2	1229.1	1258.9	1272.9	1308.7	1312.6
77.5°	2712.8	1955.0	614.6	568.8	640.4	851.2	1038.2	1072.0	1034.2	1054.1	1038.2
80°	916.9	725.9	387.8	433.6	489.3	664.3	831.3	865.1	785.6	781.6	773.7
82.5°	320.2	294.3	246.6	288.4	316.2	475.3	628.5	672.2	584.7	582.7	554.9
85°	125.3	119.3	137.2	157.1	188.9	292.4	413.7	435.6	360.0	290.4	286.4
87.5°	25.9	27.8	33.8	35.8	57.7	101.4	149.2	183.0	145.2	123.3	113.4
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)