

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: P941942

Luminaire Tested: **GALN-SB5D-722-U-SL4**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P941942
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-SB5D-722-U-SL4
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(5) 70 CRI, 2200K, 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: 42093 lumens
Efficiency: N/A
Efficacy: 115.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 364.9
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



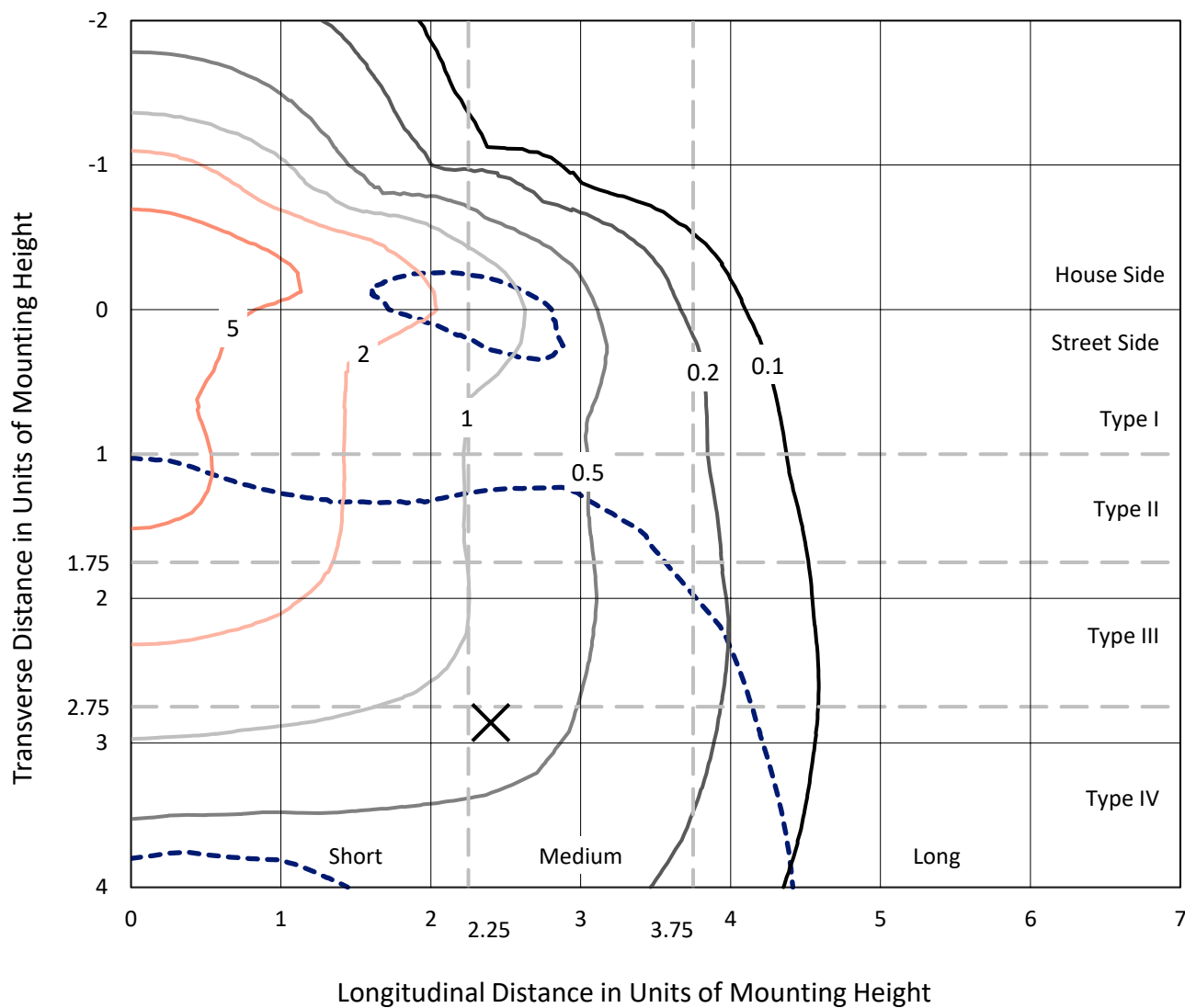
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

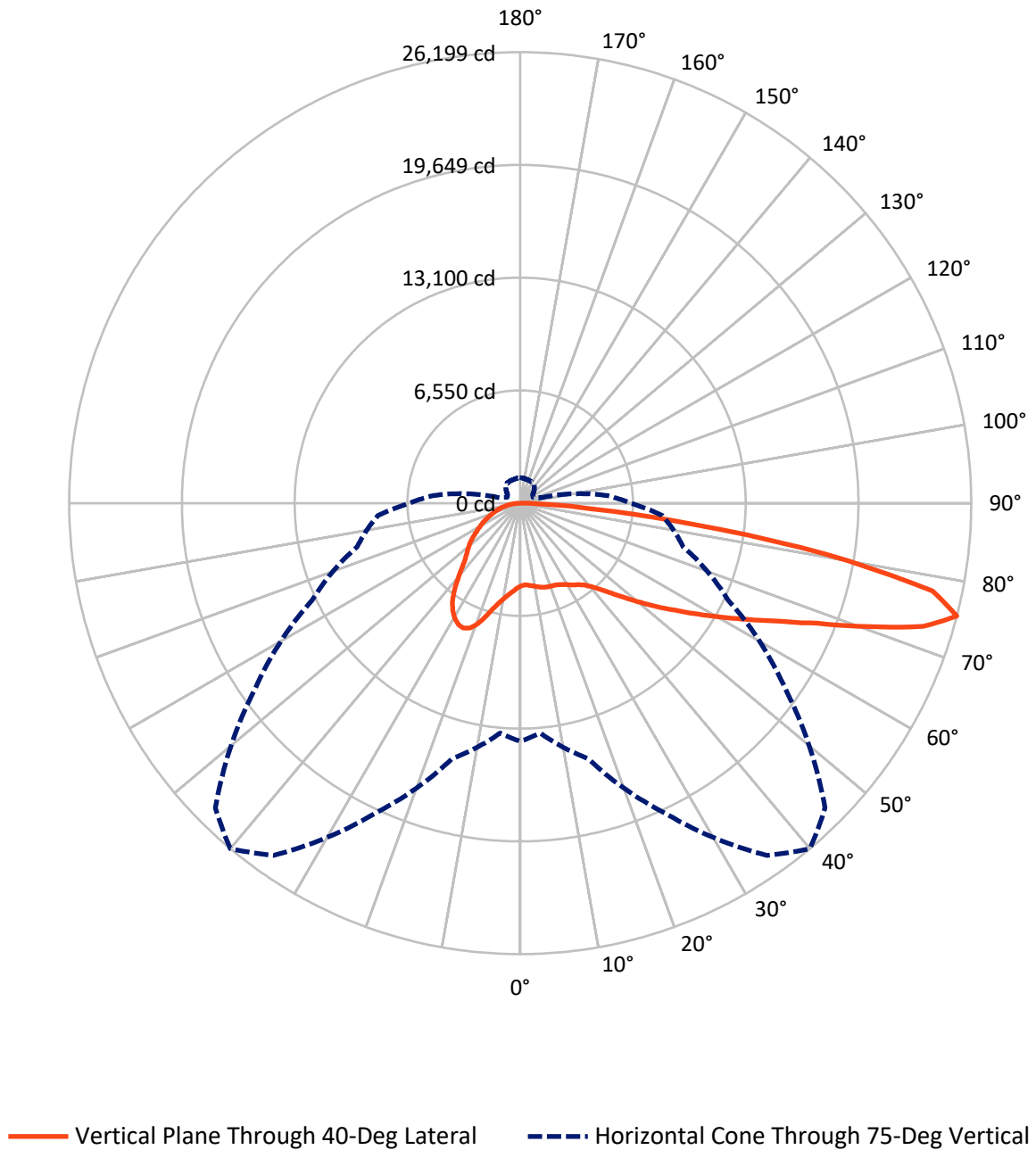


Based on 25 foot mounting height. Maximum calculated value = 9.9 fc
Type IV - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13041.8	0.0	13041.8
	% Fixture	31.0	0.0	31.0
Street Side	Lumens	29051.2	0.0	29051.2
	% Fixture	69.0	0.0	69.0
Total	Lumens	42093.0	0.0	42093.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	480.5	1.1
10°-20°	1613.2	3.8
20°-30°	2945.5	7.0
30°-40°	4177.5	9.9
40°-50°	5640.9	13.4
50°-60°	7588.5	18.0
60°-70°	9631.6	22.9
70°-80°	8741.2	20.8
80°-90°	1274.2	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°	42093.0	100.0
0°-180°	42093.0	100.0

Coefficient of Utilization



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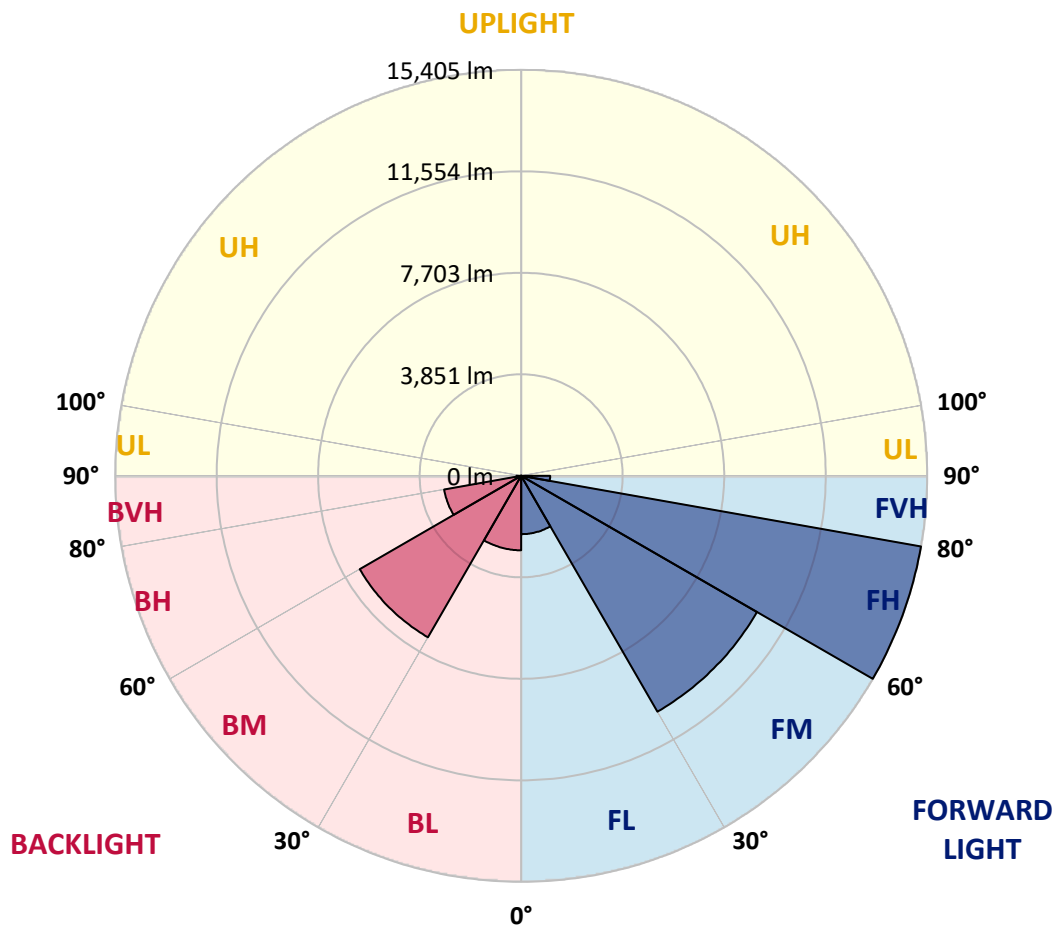
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2214.1	5.3			
FM	(30°-60°)	10332.9	24.5			
FH	(60°-80°)	15405.4	36.6			G5
FVH	(80°-90°)	1098.8	2.6			G5
BL	(0°-30°)	2825.0	6.7	B4/5000		
BM	(30°-60°)	7074.0	16.8	B4/8500		
BH	(60°-80°)	2967.4	7.0	B4/5000		G4/5000
BVH	(80°-90°)	175.4	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°	4813.4	4813.4	4813.4	4813.4	4813.4	4813.4	4813.4	4813.4	4813.4	4813.4	4813.4
2.5°	4739.7	4766.5	4759.8	4750.9	4750.9	4753.1	4750.9	4766.5	4782.1	4797.8	4822.3
5°	4788.8	4815.6	4802.2	4791.1	4782.1	4779.9	4773.2	4771.0	4779.9	4800.0	4833.5
7.5°	4884.8	4911.6	4891.5	4871.4	4853.6	4844.6	4835.7	4822.3	4815.6	4826.8	4873.7
10°	4992.0	5018.8	4994.2	4958.5	4929.5	4918.3	4909.4	4896.0	4887.1	4893.8	4945.1
12.5°	5099.2	5125.9	5092.5	5043.3	5005.4	4998.7	4987.5	4983.1	4980.8	4978.6	5029.9
15°	5199.6	5221.9	5179.5	5121.5	5081.3	5070.1	5059.0	5065.7	5076.8	5090.2	5148.3
17.5°	5277.8	5300.1	5237.6	5161.7	5123.7	5119.3	5112.6	5134.9	5166.1	5199.6	5271.1
20°	5349.2	5371.5	5291.2	5188.5	5143.8	5143.8	5146.0	5192.9	5237.6	5286.7	5384.9
22.5°	5449.7	5467.5	5369.3	5228.6	5163.9	5168.4	5186.2	5233.1	5288.9	5355.9	5492.1
25°	5599.3	5612.6	5492.1	5304.6	5230.9	5244.3	5259.9	5282.2	5335.8	5413.9	5597.0
27.5°	5840.4	5851.5	5693.0	5438.5	5326.9	5349.2	5371.5	5355.9	5380.5	5447.4	5681.9
30°	6179.7	6186.4	5985.5	5648.4	5489.9	5501.0	5505.5	5440.7	5393.9	5447.4	5742.1
32.5°	6581.6	6579.3	6340.5	5902.9	5675.2	5664.0	5626.0	5498.8	5389.4	5436.3	5795.7
35°	7204.5	7179.9	6871.8	6260.1	5885.0	5815.8	5726.5	5563.5	5411.7	5425.1	5842.6
37.5°	8235.9	8160.0	7733.6	6845.0	6197.6	6021.2	5889.5	5668.5	5460.8	5420.6	5898.4
40°	9399.1	9303.1	8834.2	7646.5	6666.4	6382.9	6170.8	5818.0	5541.2	5440.7	5981.0
42.5°	10778.8	10642.6	10138.0	8590.9	7260.3	6849.5	6530.2	6007.8	5659.5	5505.5	6092.6
45°	12473.3	12292.5	11578.0	9655.8	8008.2	7461.2	7034.8	6295.8	5840.4	5630.5	6260.1
47.5°	14185.7	14230.3	13214.5	10874.8	8905.7	8215.8	7666.6	6728.9	6103.8	5831.4	6530.2
50°	16005.2	16036.4	14842.0	12225.5	9923.7	9068.6	8376.5	7213.4	6469.9	6117.2	6934.3
52.5°	17425.1	17429.6	16320.0	13638.7	10984.2	10006.3	9142.3	7767.1	6894.1	6496.7	7472.4
55°	18313.7	18302.5	17355.9	14976.0	12203.2	10990.9	9990.7	8396.6	7412.1	6943.2	8148.8
57.5°	18958.9	18925.4	18070.3	16125.8	13502.5	12154.0	10950.7	9111.1	8023.8	7474.6	9039.6
60°	19204.4	19184.4	18554.8	17119.2	14868.8	13440.0	12058.0	9910.3	8718.1	8101.9	10184.9
62.5°	19298.2	19336.2	19030.3	18081.5	16331.1	14864.4	13274.8	10865.8	9499.5	8811.9	11392.7
65°	19628.6	19697.8	19635.3	19340.6	17983.2	16532.1	14888.9	12002.2	10352.4	9573.2	12654.1
67.5°	20282.8	20352.0	20378.8	20847.6	20001.5	18610.6	16902.7	13417.7	11350.3	10363.5	13603.0
70°	20267.1	20247.0	20720.4	22046.5	22528.7	21488.4	19617.5	15159.1	12540.3	11019.9	13723.5
72.5°	18447.6	18286.9	19405.4	22033.1	24631.8	24493.4	22932.8	17405.0	13567.2	11100.3	11908.5
75°	13839.6	13411.0	15386.8	19856.4	24982.3	26199.0	25040.3	18798.1	13323.9	9807.6	8287.2
77.5°	5918.5	5487.6	7816.2	14699.1	22359.0	24491.1	23107.0	16400.4	10635.9	6485.6	4069.9
80°	1549.4	1547.2	2362.0	6664.2	15205.9	18085.9	15866.8	10591.2	6077.0	2317.4	1123.0
82.5°	640.7	625.1	868.5	2592.0	7429.9	10149.2	8282.8	4724.1	2194.6	627.3	372.8
85°	238.9	236.7	422.0	895.3	2621.0	4186.0	3029.6	1207.8	547.0	305.9	167.4
87.5°	67.0	64.7	91.5	310.3	638.5	968.9	518.0	198.7	154.0	120.6	49.1
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°	4813.4	4813.4	4813.4	4813.4	4813.4	4813.4	4813.4	4813.4	4813.4	4813.4	4813.4
2.5°	4829.0	4840.2	4860.3	4875.9	4896.0	4918.3	4949.6	4969.7	4989.8	5003.2	4994.2
5°	4849.1	4873.7	4925.0	4976.4	5036.6	5092.5	5157.2	5204.1	5242.0	5253.2	5257.7
7.5°	4893.8	4933.9	5021.0	5108.1	5204.1	5295.6	5389.4	5469.8	5534.5	5559.1	5561.3
10°	4971.9	5025.5	5148.3	5271.1	5398.3	5539.0	5659.5	5775.6	5867.2	5905.1	5907.3
12.5°	5070.1	5137.1	5297.9	5467.5	5643.9	5838.1	5994.4	6137.3	6251.2	6302.5	6302.5
15°	5197.4	5284.5	5489.9	5717.6	5976.6	6246.7	6445.4	6603.9	6731.2	6793.7	6789.2
17.5°	5335.8	5451.9	5710.9	6054.7	6425.3	6780.3	7012.5	7128.6	7260.3	7320.6	7318.3
20°	5469.8	5612.6	5983.2	6483.3	6976.7	7354.0	7541.6	7572.8	7581.8	7588.5	7606.3
22.5°	5608.2	5800.2	6324.8	7023.6	7552.7	7813.9	7840.7	7706.8	7519.2	7432.2	7456.7
25°	5760.0	6014.5	6771.3	7619.7	8048.4	8079.6	7874.2	7548.3	7193.3	7030.3	7054.9
27.5°	5907.3	6262.3	7307.2	8189.0	8405.6	8131.0	7688.9	7226.8	6798.1	6626.2	6646.3
30°	6054.7	6545.9	7898.8	8686.9	8568.5	8003.7	7396.5	6880.7	6449.9	6269.0	6289.1
32.5°	6204.3	6876.3	8579.7	9046.3	8539.5	7733.6	7032.6	6492.3	6112.7	5923.0	5947.5
35°	6373.9	7282.6	9224.9	9242.8	8345.3	7336.2	6552.6	6027.9	5697.5	5545.7	5579.2
37.5°	6595.0	7798.3	9794.2	9291.9	8005.9	6753.5	5956.5	5478.7	5206.3	5137.1	5186.2
40°	6869.6	8419.0	10229.6	9213.8	7503.6	6045.8	5304.6	4922.8	4768.7	4784.4	4837.9
42.5°	7226.8	9113.3	10535.4	9012.8	6804.8	5315.7	4733.0	4563.3	4637.0	4699.5	4757.6
45°	7691.2	9834.4	10725.2	8671.2	6014.5	4697.3	4395.9	4436.1	4491.9	4498.6	4543.3
47.5°	8285.0	10564.5	10850.2	8155.5	5208.6	4261.9	4181.6	4190.5	4179.3	4132.5	4168.2
50°	9026.2	11274.4	10961.8	7472.4	4523.2	3989.6	3882.4	3851.2	3697.1	3545.3	3565.4
52.5°	9870.1	11926.3	11008.7	6624.0	3989.6	3761.9	3587.7	3391.3	3103.3	3056.4	3072.0
55°	10807.8	12529.1	10888.2	5581.4	3540.8	3469.4	3206.0	2969.3	2938.0	2897.9	2904.6
57.5°	11928.5	13178.8	10642.6	4418.2	3080.9	3127.8	2871.1	2897.9	2842.0	2779.5	2768.4
60°	13154.2	13850.8	10211.7	3357.8	2605.4	2701.4	2784.0	2781.8	2766.1	2714.8	2696.9
62.5°	14257.1	14292.8	9363.3	2571.9	2187.9	2371.0	2596.5	2594.2	2580.8	2551.8	2540.6
65°	14913.5	14225.8	7947.9	2024.9	1844.1	2098.6	2342.0	2359.8	2362.0	2359.8	2359.8
67.5°	14797.4	13442.2	6005.6	1611.9	1560.6	1821.8	2089.7	2114.2	2132.1	2136.6	2141.0
70°	13484.6	11720.9	3915.9	1286.0	1308.3	1578.4	1850.8	1875.3	1891.0	1908.8	1917.8
72.5°	10510.9	8617.7	2241.5	1040.4	1087.3	1368.6	1614.1	1643.2	1652.1	1685.6	1699.0
75°	6405.2	5067.9	1210.0	819.3	893.0	1169.9	1379.7	1413.2	1428.8	1469.0	1473.5
77.5°	3045.2	2194.6	689.9	638.5	718.9	955.5	1165.4	1203.3	1160.9	1183.3	1165.4
80°	1029.2	814.9	435.3	486.7	549.2	745.7	933.2	971.2	881.9	877.4	868.5
82.5°	359.4	330.4	276.8	323.7	355.0	533.6	705.5	754.6	656.4	654.1	622.9
85°	140.7	134.0	154.0	176.4	212.1	328.2	464.4	488.9	404.1	326.0	321.5
87.5°	29.0	31.3	38.0	40.2	64.7	113.9	167.4	205.4	163.0	138.4	127.3
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)