

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: P955915

Luminaire Tested: **GALN-SB8D-722-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955915
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SB8D-722-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 69783 lumens
Efficiency: N/A
Efficacy: 119.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 584.9
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

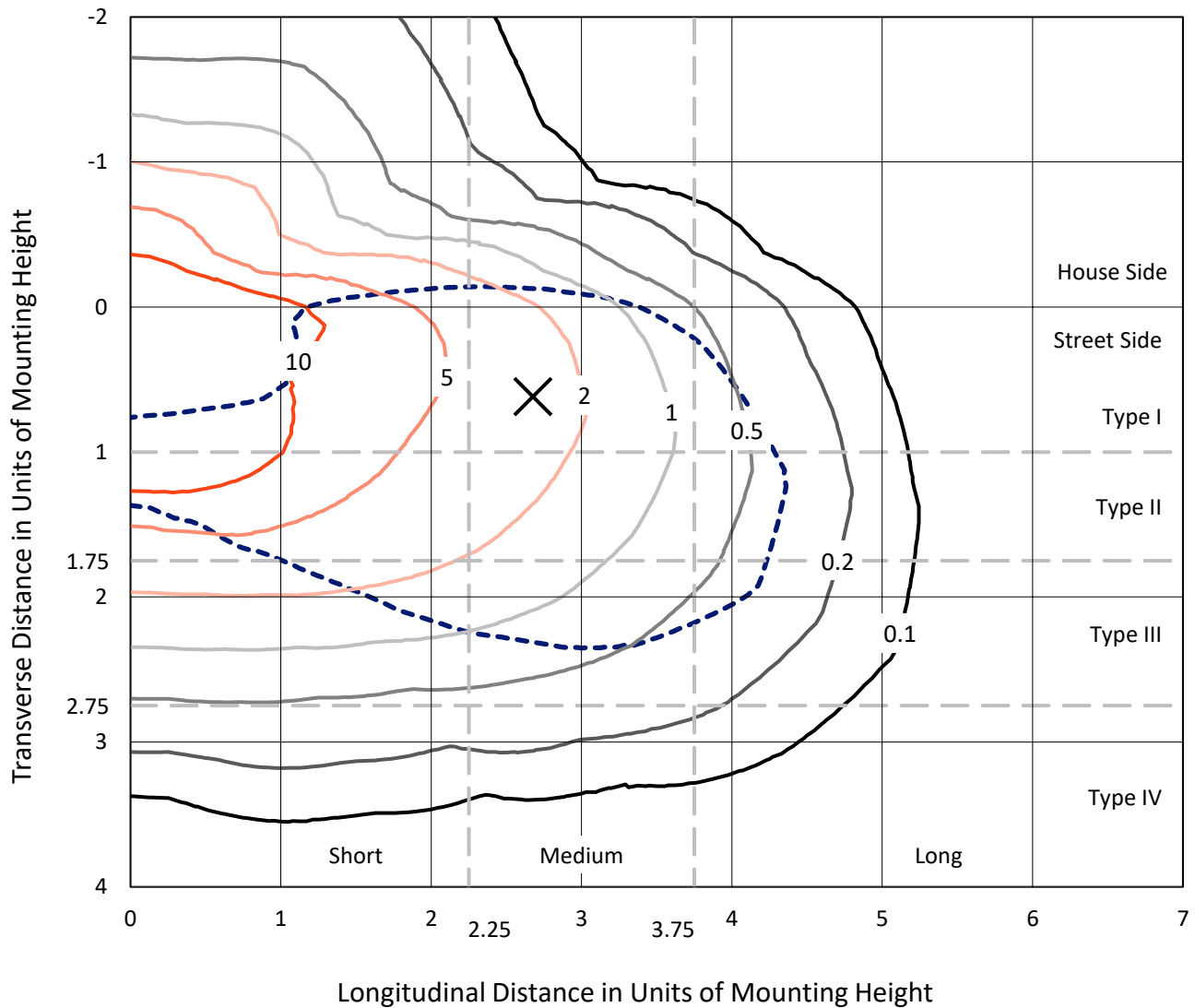


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Iso-Footcandle Lines of Horizontal Illumination

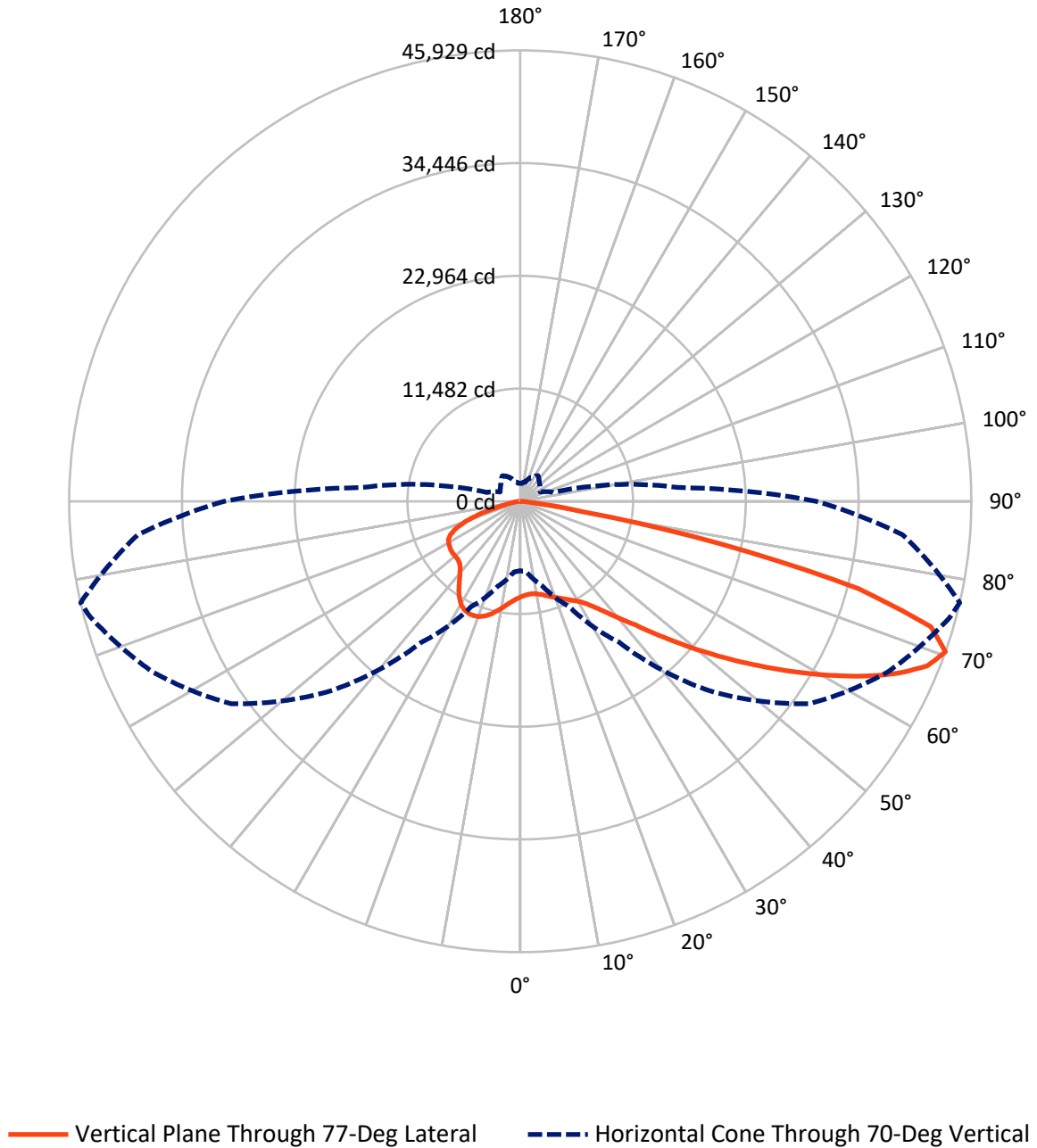
× Max cd
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15281.4	0.0	15281.4
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	54501.6	0.0	54501.6
	% Fixture	78.1	0.0	78.1
Total	Lumens	69783.0	0.0	69783.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	928.5	1.3
10°-20°	2679.7	3.8
20°-30°	4582.7	6.6
30°-40°	7369.4	10.6
40°-50°	11505.6	16.5
50°-60°	15368.8	22.0
60°-70°	16380.7	23.5
70°-80°	10083.9	14.5
80°-90°	883.6	1.3
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°	69783.0	100.0
0°-180°	69783.0	100.0

Coefficient of Utilization



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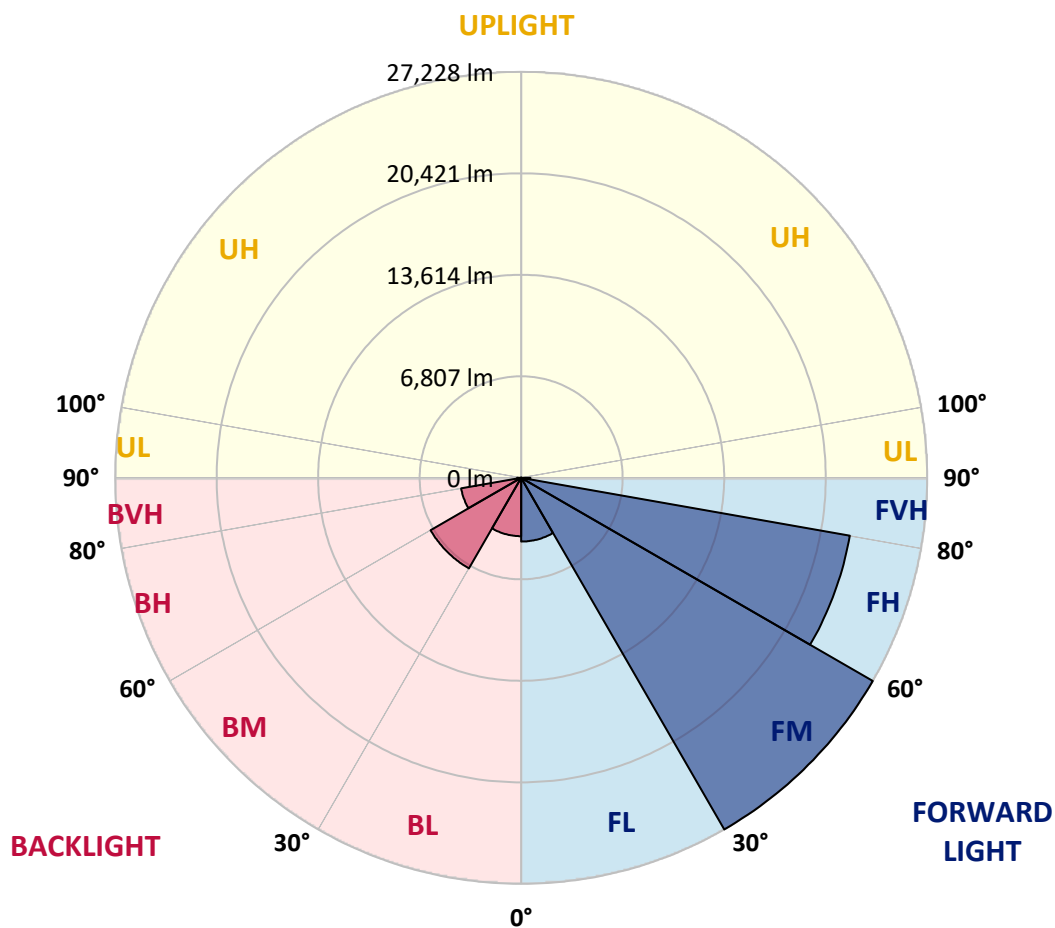
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4275.3	6.1			
FM	(30°-60°)	27227.8	39.0			
FH	(60°-80°)	22380.6	32.1			G5
FVH	(80°-90°)	617.9	0.9			G4/750
BL	(0°-30°)	3915.6	5.6	B4/5000		
BM	(30°-60°)	7016.0	10.1	B4/8500		
BH	(60°-80°)	4084.1	5.9	B4/5000		G4/5000
BVH	(80°-90°)	265.7	0.4			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	9735.4	9735.4	9735.4	9735.4	9735.4	9735.4	9735.4	9735.4	9735.4	9735.4	9735.4
2.5°	8974.1	8970.5	9017.0	9031.3	9117.1	9177.8	9292.2	9413.7	9571.0	9588.8	9685.3
5°	8455.9	8455.9	8509.5	8566.7	8677.5	8799.0	8974.1	9185.0	9456.6	9499.5	9738.9
7.5°	8016.3	8044.9	8091.4	8202.2	8330.8	8505.9	8774.0	9074.2	9431.6	9499.5	9885.5
10°	7662.5	7694.7	7751.8	7841.2	8034.2	8277.2	8627.4	9013.4	9492.3	9599.6	10099.9
12.5°	7551.7	7583.9	7616.0	7683.9	7862.6	8148.5	8566.7	9042.0	9638.9	9746.1	10393.0
15°	7809.0	7848.3	7823.3	7805.4	7898.4	8159.3	8595.3	9145.7	9821.1	9974.8	10753.9
17.5°	8402.3	8416.6	8359.4	8191.4	8177.1	8316.5	8731.1	9288.6	10049.9	10217.8	11118.5
20°	9360.1	9335.1	9217.1	8884.8	8695.4	8666.8	8963.4	9503.1	10285.7	10464.4	11511.6
22.5°	10661.0	10632.4	10396.5	9871.2	9449.5	9170.7	9299.3	9781.8	10550.2	10750.4	11894.0
25°	12283.6	12244.3	11897.6	11182.8	10528.8	9839.0	9756.8	10149.9	10875.4	11061.3	12294.3
27.5°	14177.8	14145.6	13770.3	12826.8	11883.3	10753.9	10325.1	10582.4	11215.0	11425.8	12744.6
30°	16214.9	16307.8	15643.1	14628.1	13434.4	11947.6	11089.9	11114.9	11654.6	11844.0	13291.4
32.5°	18609.4	18770.2	17969.7	16683.1	15053.4	13245.0	12054.8	11858.3	12294.3	12451.5	13981.2
35°	20982.5	21164.8	20500.0	19077.6	17201.3	14774.6	13062.7	12712.4	13144.9	13316.4	14896.1
37.5°	23033.9	23277.0	22933.9	21697.3	19499.3	16618.7	14377.9	13716.7	14192.0	14406.5	16125.5
40°	24652.9	25024.6	24999.6	24227.6	22208.4	18856.0	16046.9	14956.9	15493.0	15725.3	17615.9
42.5°	25968.1	26289.8	26568.5	26529.2	25035.3	21397.1	18009.0	16568.7	16976.1	17244.2	19292.0
45°	26875.9	27219.0	27819.4	28466.3	27755.1	24116.8	20257.0	18480.8	18852.4	19256.3	21289.9
47.5°	27687.2	28076.7	28855.9	29881.6	30063.8	26847.3	22719.4	20707.3	21046.8	21465.0	23294.8
50°	27758.7	28094.6	29302.6	30757.2	31704.3	29470.6	25364.1	23205.5	23523.6	23970.3	25442.8
52.5°	26032.5	26561.4	28670.0	30732.2	32458.4	31665.0	27991.0	25803.7	26161.1	26697.2	27665.7
55°	20207.0	20982.5	26815.1	29774.3	32190.3	33083.8	30489.1	28566.4	29023.8	29584.9	29903.0
57.5°	17405.0	17744.5	21286.3	28030.3	30968.0	33451.9	32597.7	31357.6	32093.8	32708.5	32268.9
60°	15643.1	15925.4	18019.7	25317.7	29359.8	32869.4	34227.5	33959.4	35231.7	35964.4	34688.5
62.5°	13756.0	14024.1	15929.0	21139.8	27301.2	31900.8	35256.7	36361.1	38448.3	39248.8	36968.7
65°	11883.3	12112.0	13938.3	17762.4	24685.1	30932.3	35789.3	38437.5	41425.3	42254.5	38862.8
67.5°	9796.1	9985.5	11711.7	14985.5	21504.3	29606.4	36053.7	40070.8	44016.4	44727.6	39799.2
70°	7069.2	7215.7	8999.1	11851.1	17512.2	27326.2	35946.5	41228.8	45360.2	45928.5	39091.6
72.5°	3341.6	3473.9	5568.2	7694.7	12369.3	22887.4	33777.1	40310.3	43995.0	43712.6	34760.0
75°	1783.4	1897.8	3198.7	4220.8	6533.1	15689.5	27640.7	34724.2	36943.6	35571.3	25689.4
77.5°	1208.0	1297.3	1980.0	2533.9	2984.2	7448.1	17766.0	24041.8	23130.4	20864.6	12866.1
80°	957.8	1050.7	1622.6	1715.5	1443.9	2691.2	7340.8	11129.2	7994.9	6393.7	3659.7
82.5°	736.2	839.9	1365.2	1243.7	786.3	1104.3	2137.2	3520.3	2047.9	1558.2	886.3
85°	450.3	561.1	1072.2	793.4	443.2	503.9	725.5	979.3	625.4	521.8	318.1
87.5°	228.7	321.7	543.2	289.5	200.1	117.9	193.0	193.0	164.4	143.0	82.2
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°	9735.4	9735.4	9735.4	9735.4	9735.4	9735.4	9735.4	9735.4	9735.4	9735.4	9735.4
2.5°	9771.1	9842.6	9964.1	10078.5	10167.8	10253.6	10339.4	10385.8	10400.1	10457.3	10489.5
5°	9885.5	10017.7	10253.6	10475.2	10614.6	10700.3	10761.1	10796.8	10804.0	10821.8	10850.4
7.5°	10096.3	10307.2	10636.0	10857.6	10961.2	10954.1	10929.1	10839.7	10804.0	10771.8	10779.0
10°	10393.0	10671.7	11075.6	11229.3	11164.9	10993.4	10771.8	10510.9	10389.4	10271.5	10235.7
12.5°	10761.1	11114.9	11511.6	11504.5	11186.4	10746.8	10232.1	9831.9	9578.1	9395.8	9353.0
15°	11207.8	11615.2	11919.0	11676.0	10979.1	10189.3	9435.2	8913.4	8684.6	8484.5	8463.0
17.5°	11668.9	12104.9	12244.3	11622.4	10457.3	9363.7	8509.5	8098.5	7873.4	7766.1	7798.3
20°	12119.2	12551.6	12437.3	11315.0	9663.9	8427.3	7666.1	7440.9	7394.4	7419.5	7408.7
22.5°	12594.5	12980.5	12476.6	10721.8	8652.5	7469.5	7051.3	7058.5	7162.1	7237.2	7255.1
25°	13080.6	13341.5	12372.9	9864.0	7566.0	6765.4	6661.8	6776.2	6979.9	7126.4	7165.7
27.5°	13548.7	13663.1	12147.8	8802.6	6633.2	6261.5	6279.4	6515.3	6822.6	7026.3	7076.4
30°	14077.7	13949.0	11715.3	7608.9	5986.3	5829.1	5979.2	6254.4	6561.7	6744.0	6786.9
32.5°	14674.5	14195.6	11029.1	6504.5	5528.9	5482.4	5729.0	5907.7	6043.5	6097.1	6125.7
35°	15417.9	14542.3	10149.9	5729.0	5117.9	5228.6	5464.5	5375.2	5321.6	5293.0	5321.6
37.5°	16382.9	15010.5	9120.7	5225.1	4785.5	5046.4	5142.9	4864.1	4653.2	4549.6	4574.6
40°	17544.4	15696.7	8130.7	4835.5	4574.6	4889.1	4721.2	4385.2	4117.2	3970.6	3981.3
42.5°	18834.6	16415.0	7297.9	4542.5	4456.7	4760.5	4410.2	4009.9	3577.5	3531.0	3577.5
45°	20189.1	17154.8	6729.7	4317.3	4399.5	4649.7	4231.5	3584.6	3277.3	3466.7	3566.8
47.5°	21543.6	17833.9	6386.6	4149.3	4370.9	4524.6	4074.3	3348.8	3130.8	3405.9	3534.6
50°	23051.8	18441.4	6232.9	4027.8	4338.7	4474.6	3838.4	3288.0	2977.1	3159.3	3295.2
52.5°	24549.3	18913.2	6118.6	3906.3	4292.3	4435.2	3724.0	3216.5	2791.2	2802.0	2877.0
55°	26043.2	19220.6	5993.5	3745.5	4188.6	4349.5	3713.3	3137.9	2651.9	2601.8	2637.6
57.5°	27637.1	19395.7	5839.8	3566.8	4009.9	4131.5	3702.6	3077.1	2609.0	2526.8	2537.5
60°	29259.7	19653.0	5639.6	3348.8	3770.5	3870.6	3677.6	3055.7	2583.9	2444.6	2455.3
62.5°	30714.3	19742.3	5400.2	3141.5	3463.1	3613.2	3624.0	3037.8	2516.0	2276.6	2276.6
65°	31668.5	19356.4	4982.0	2905.6	3130.8	3348.8	3520.3	2977.1	2394.5	2155.1	2155.1
67.5°	31629.2	18255.6	4328.0	2601.8	2809.1	3055.7	3370.2	2873.4	2248.0	2005.0	2015.7
70°	30156.8	16082.7	3498.9	2248.0	2455.3	2741.2	3177.2	2719.8	2072.9	1840.6	1862.0
72.5°	25864.5	12587.4	2541.1	1833.4	2044.3	2416.0	2927.0	2533.9	1894.2	1694.0	1683.3
75°	18477.2	7966.3	1722.6	1408.1	1590.4	2047.9	2616.1	2315.9	1729.8	1701.2	1604.7
77.5°	9438.7	3806.2	1140.1	1029.3	1107.9	1615.4	2198.0	2069.3	1754.8	1404.6	1250.9
80°	3070.0	1404.6	718.4	700.5	736.2	1075.8	1701.2	1697.6	1329.5	954.2	843.4
82.5°	979.3	604.0	468.2	450.3	432.4	675.5	1186.5	1343.8	897.1	604.0	600.4
85°	389.6	361.0	275.2	253.7	182.3	318.1	621.9	893.5	668.3	436.0	446.7
87.5°	143.0	143.0	75.1	53.6	39.3	107.2	168.0	268.0	382.4	225.2	221.6
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)