

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: P955936

Luminaire Tested: **GALN-SB8D-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955936
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-727-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 78352 lumens
Efficiency: N/A
Efficacy: 134.0 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

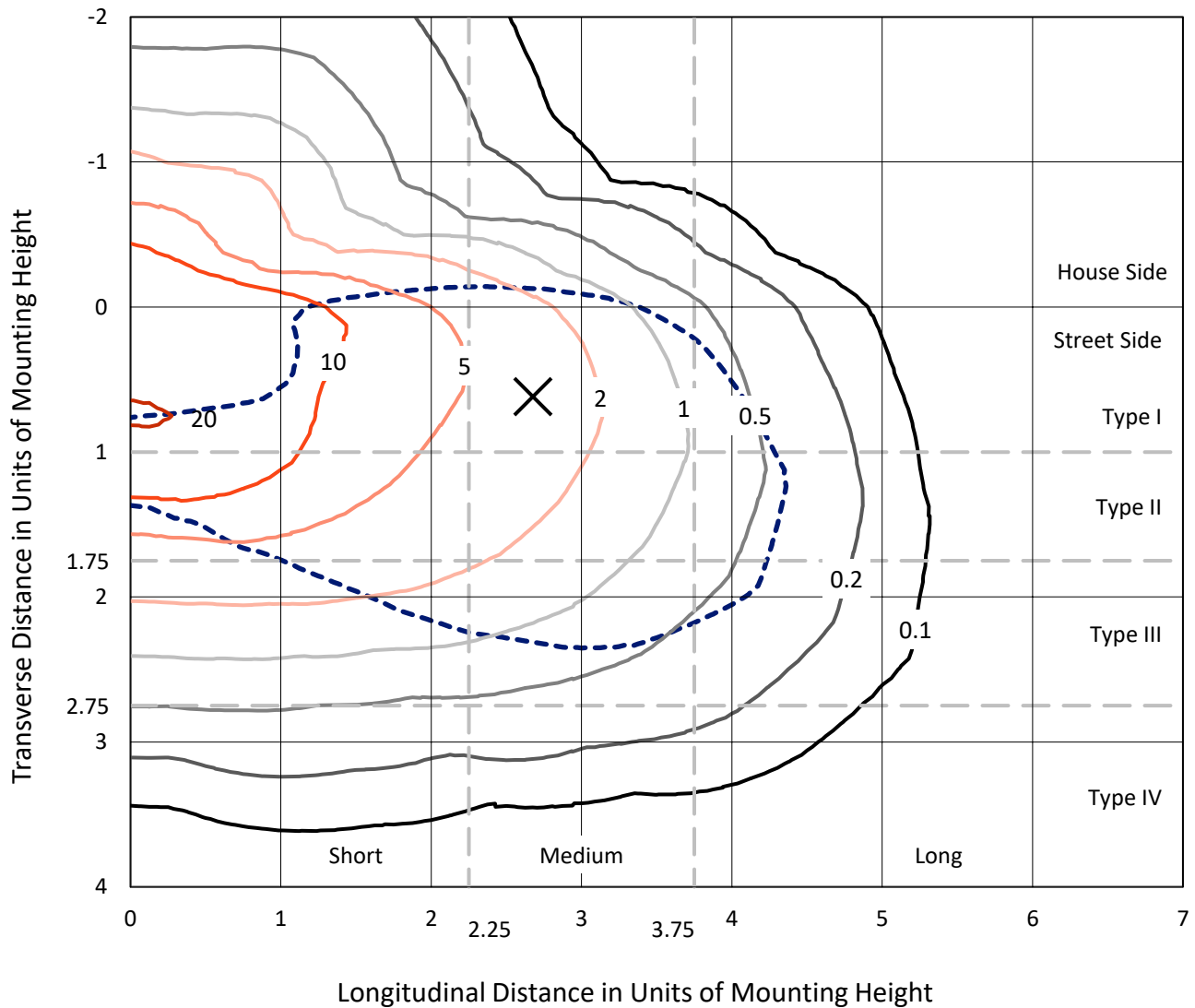


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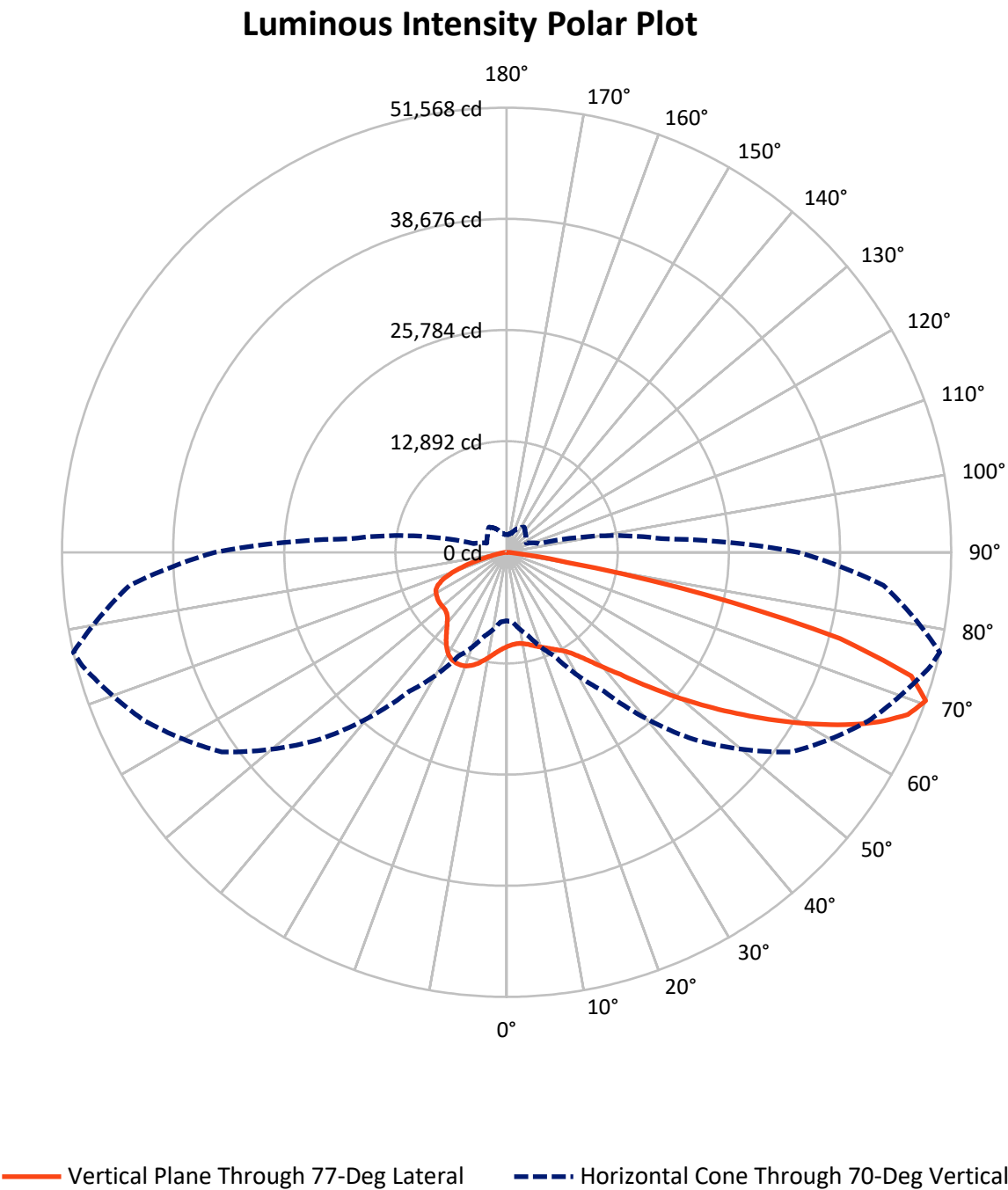
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.7 fc
Type III - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	17157.9	0.0	17157.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	61194.1	0.0	61194.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	78352.0	0.0	78352.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1042.5	1.3
10°-20°	3008.8	3.8
20°-30°	5145.4	6.6
30°-40°	8274.4	10.6
40°-50°	12918.5	16.5
50°-60°	17256.0	22.0
60°-70°	18392.2	23.5
70°-80°	11322.1	14.5
80°-90°	992.1	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°	78352.0	100.0
0°-180°	78352.0	100.0

Coefficient of Utilization



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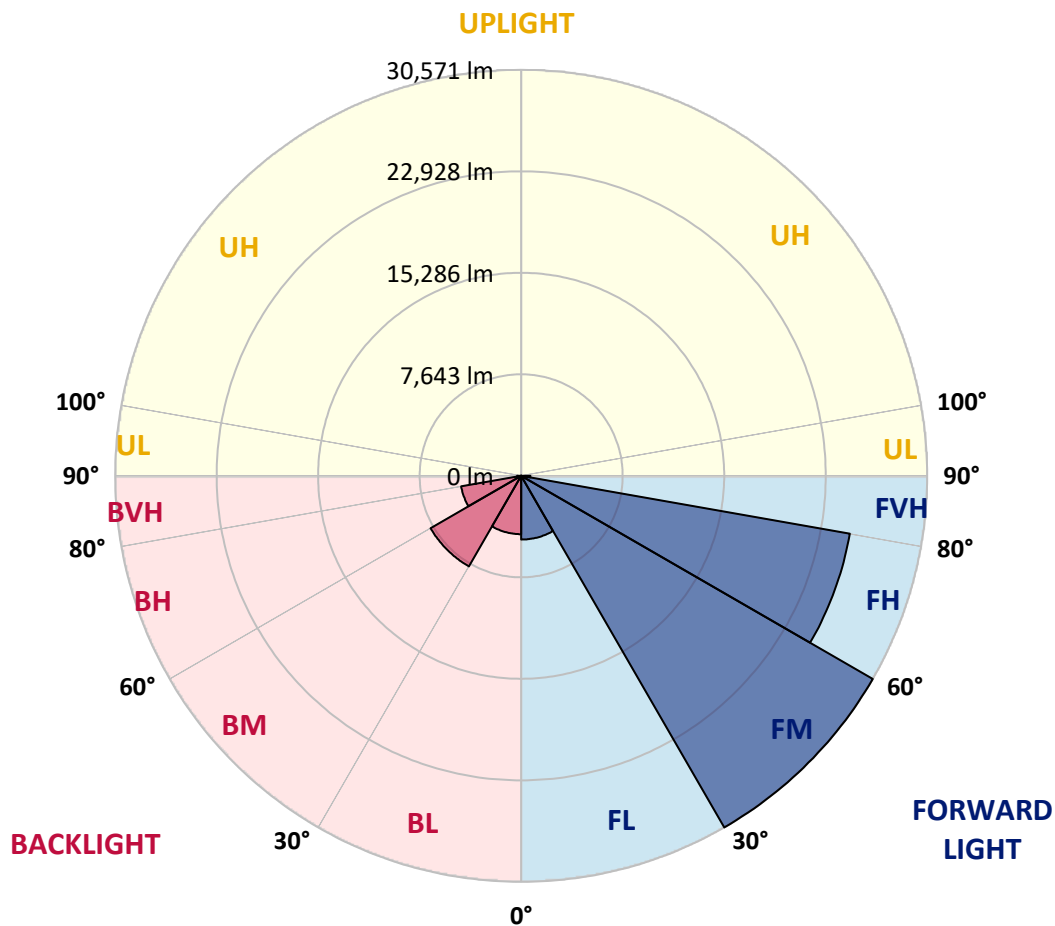
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4800.3	6.1			
FM	(30°-60°)	30571.3	39.0			
FH	(60°-80°)	25128.8	32.1			G5
FVH	(80°-90°)	693.8	0.9			G4/750
BL	(0°-30°)	4396.4	5.6	B4/5000		
BM	(30°-60°)	7877.6	10.1	B4/8500		
BH	(60°-80°)	4585.6	5.9	B4/5000		G4/5000
BVH	(80°-90°)	298.4	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°	10930.8	10930.8	10930.8	10930.8	10930.8	10930.8	10930.8	10930.8	10930.8	10930.8	10930.8
2.5°	10076.1	10072.1	10124.2	10140.3	10236.6	10304.8	10433.2	10569.7	10746.2	10766.3	10874.6
5°	9494.2	9494.2	9554.4	9618.6	9743.0	9879.5	10076.1	10312.9	10617.8	10666.0	10934.8
7.5°	9000.7	9032.8	9084.9	9209.3	9353.8	9550.4	9851.4	10188.5	10589.7	10666.0	11099.4
10°	8603.4	8639.5	8703.7	8804.0	9020.7	9293.6	9686.9	10120.2	10657.9	10778.3	11340.1
12.5°	8479.0	8515.1	8551.2	8627.5	8828.1	9149.1	9618.6	10152.3	10822.5	10942.9	11669.2
15°	8767.9	8812.1	8784.0	8763.9	8868.2	9161.2	9650.7	10268.7	11027.1	11199.7	12074.5
17.5°	9434.1	9450.1	9385.9	9197.3	9181.2	9337.7	9803.2	10429.2	11283.9	11472.5	12483.8
20°	10509.5	10481.4	10349.0	9975.8	9763.1	9731.0	10064.1	10670.0	11548.8	11749.4	12925.2
22.5°	11970.1	11938.0	11673.2	11083.3	10609.8	10296.8	10441.3	10983.0	11845.7	12070.4	13354.5
25°	13791.9	13747.8	13358.6	12556.0	11821.7	11047.2	10954.9	11396.3	12210.9	12419.6	13804.0
27.5°	15918.7	15882.6	15461.2	14401.9	13342.5	12074.5	11592.9	11881.8	12592.1	12828.9	14309.6
30°	18206.0	18310.3	17563.9	16424.3	15084.0	13414.7	12451.7	12479.8	13085.7	13298.4	14923.5
32.5°	20894.6	21075.1	20176.3	18731.7	16901.8	14871.4	13535.1	13314.4	13804.0	13980.5	15698.0
35°	23559.0	23763.7	23017.3	21420.2	19313.5	16588.8	14666.7	14273.5	14759.0	14951.6	16725.3
37.5°	25862.4	26135.3	25750.0	24361.6	21893.7	18659.4	16143.4	15401.1	15934.8	16175.5	18105.7
40°	27680.2	28097.5	28069.4	27202.7	24935.4	21171.4	18017.4	16793.5	17395.4	17656.2	19779.0
42.5°	29156.9	29518.0	29831.0	29786.9	28109.5	24024.5	20220.4	18603.3	19060.7	19361.7	21661.0
45°	30176.1	30561.3	31235.5	31961.8	31163.3	27078.3	22744.4	20750.1	21167.4	21620.9	23904.1
47.5°	31087.0	31524.4	32399.2	33550.9	33755.5	30144.0	25509.3	23250.1	23631.3	24100.8	26155.3
50°	31167.3	31544.5	32900.8	34534.0	35597.4	33089.4	28478.7	26055.0	26412.1	26913.7	28567.0
52.5°	29229.1	29823.0	32190.5	34505.9	36444.1	35553.3	31428.1	28972.3	29373.6	29975.5	31062.9
55°	22688.3	23559.0	30107.9	33430.5	36143.1	37146.3	34233.0	32074.2	32587.8	33217.8	33574.9
57.5°	19542.2	19923.5	23900.1	31472.3	34770.8	37559.6	36600.6	35208.2	36034.8	36725.0	36231.4
60°	17563.9	17881.0	20232.4	28426.5	32965.0	36905.6	38430.4	38129.5	39558.0	40380.6	38948.1
62.5°	15445.2	15746.2	17885.0	23735.6	30653.6	35818.1	39586.1	40826.0	43169.5	44068.4	41508.2
65°	13342.5	13599.3	15649.9	19943.5	27716.3	34730.6	40184.0	43157.5	46512.2	47443.1	43635.0
67.5°	10999.0	11211.7	13149.9	16825.6	24144.9	33241.9	40480.9	44991.3	49421.4	50220.0	44686.3
70°	7937.3	8101.8	10104.2	13306.4	19662.6	30681.7	40360.6	46291.5	50930.2	51568.3	43891.8
72.5°	3752.0	3900.4	6251.9	8639.5	13888.2	25697.9	37924.8	45260.2	49397.3	49080.3	39028.3
75°	2002.4	2130.8	3591.4	4739.1	7335.4	17616.1	31034.9	38988.2	41480.1	39939.2	28843.9
77.5°	1356.3	1456.6	2223.1	2845.1	3350.7	8362.6	19947.5	26994.0	25970.7	23426.6	14446.0
80°	1075.4	1179.8	1821.8	1926.1	1621.2	3021.6	8242.3	12495.8	8976.6	7178.9	4109.1
82.5°	826.6	943.0	1532.9	1396.4	882.8	1239.9	2399.6	3952.6	2299.3	1749.6	995.2
85°	505.6	630.0	1203.8	890.8	497.6	565.8	814.6	1099.5	702.2	585.9	357.1
87.5°	256.8	361.2	609.9	325.0	224.7	132.4	216.7	216.7	184.6	160.5	92.3
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°	10930.8	10930.8	10930.8	10930.8	10930.8	10930.8	10930.8	10930.8	10930.8	10930.8	10930.8
2.5°	10970.9	11051.2	11187.6	11316.0	11416.4	11512.7	11609.0	11661.1	11677.2	11741.4	11777.5
5°	11099.4	11247.8	11512.7	11761.5	11918.0	12014.3	12082.5	12122.6	12130.6	12150.7	12182.8
7.5°	11336.1	11572.9	11942.0	12190.8	12307.2	12299.2	12271.1	12170.8	12130.6	12094.5	12102.6
10°	11669.2	11982.2	12435.6	12608.2	12535.9	12343.3	12094.5	11801.6	11665.2	11532.7	11492.6
12.5°	12082.5	12479.8	12925.2	12917.1	12560.0	12066.4	11488.6	11039.2	10754.3	10549.6	10501.5
15°	12584.1	13041.5	13382.6	13109.8	12327.3	11440.4	10593.7	10007.9	9751.1	9526.3	9502.3
17.5°	13101.7	13591.3	13747.8	13049.6	11741.4	10513.5	9554.4	9093.0	8840.2	8719.8	8755.9
20°	13607.3	14092.9	13964.5	12704.5	10850.6	9462.1	8607.4	8354.6	8302.4	8330.5	8318.5
22.5°	14141.0	14574.4	14008.6	12038.3	9714.9	8386.7	7917.2	7925.2	8041.6	8125.9	8145.9
25°	14686.8	14979.7	13892.3	11075.3	8495.1	7596.2	7479.8	7608.2	7837.0	8001.5	8045.6
27.5°	15212.5	15340.9	13639.4	9883.5	7447.7	7030.4	7050.5	7315.3	7660.4	7889.1	7945.3
30°	15806.3	15661.9	13153.9	8543.2	6721.4	6544.8	6713.4	7022.4	7367.5	7572.1	7620.3
32.5°	16476.5	15938.8	12383.4	7303.3	6207.8	6155.6	6432.5	6633.1	6785.6	6845.8	6877.9
35°	17311.1	16328.0	11396.3	6432.5	5746.3	5870.7	6135.5	6035.2	5975.0	5942.9	5975.0
37.5°	18394.6	16853.7	10240.6	5866.7	5373.1	5666.0	5774.4	5461.4	5224.6	5108.3	5136.4
40°	19698.7	17624.1	9129.1	5429.3	5136.4	5489.5	5300.9	4923.7	4622.7	4458.2	4470.2
42.5°	21147.4	18430.7	8194.1	5100.2	5003.9	5345.0	4951.8	4502.3	4016.8	3964.6	4016.8
45°	22668.2	19261.4	7556.1	4847.4	4939.7	5220.6	4751.1	4024.8	3679.7	3892.4	4004.8
47.5°	24189.1	20023.8	7170.8	4658.8	4907.6	5080.2	4574.6	3760.0	3515.2	3824.2	3968.6
50°	25882.4	20706.0	6998.3	4522.4	4871.5	5024.0	4309.7	3691.8	3342.6	3547.3	3699.8
52.5°	27563.8	21235.6	6869.9	4386.0	4819.4	4979.9	4181.3	3611.5	3134.0	3146.0	3230.3
55°	29241.1	21580.7	6729.4	4205.4	4703.0	4883.6	4169.3	3523.2	2977.5	2921.3	2961.4
57.5°	31030.8	21777.4	6556.9	4004.8	4502.3	4638.8	4157.2	3455.0	2929.3	2837.0	2849.1
60°	32852.6	22066.3	6332.2	3760.0	4233.5	4345.8	4129.2	3430.9	2901.2	2744.7	2756.8
62.5°	34485.9	22166.6	6063.3	3527.2	3888.4	4056.9	4069.0	3410.9	2825.0	2556.1	2556.1
65°	35557.3	21733.2	5593.8	3262.4	3515.2	3760.0	3952.6	3342.6	2688.6	2419.7	2419.7
67.5°	35513.1	20497.3	4859.5	2921.3	3154.0	3430.9	3784.1	3226.3	2524.0	2251.2	2263.2
70°	33859.9	18057.5	3928.5	2524.0	2756.8	3077.8	3567.4	3053.7	2327.4	2066.6	2090.7
72.5°	29040.5	14133.0	2853.1	2058.6	2295.3	2712.6	3286.5	2845.1	2126.8	1902.1	1890.0
75°	20746.1	8944.5	1934.2	1581.0	1785.7	2299.3	2937.4	2600.3	1942.2	1910.1	1801.7
77.5°	10597.8	4273.6	1280.1	1155.7	1244.0	1813.8	2467.9	2323.4	1970.3	1577.0	1404.5
80°	3447.0	1577.0	806.6	786.5	826.6	1207.8	1910.1	1906.1	1492.8	1071.4	947.0
82.5°	1099.5	678.2	525.7	505.6	485.5	758.4	1332.2	1508.8	1007.2	678.2	674.1
85°	437.4	405.3	309.0	284.9	204.7	357.1	698.2	1003.2	750.4	489.6	501.6
87.5°	160.5	160.5	84.3	60.2	44.1	120.4	188.6	301.0	429.4	252.8	248.8
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)