

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: P957364

Luminaire Tested: **GALN-SB9D-727-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P957364
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-SB9D-727-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(9) 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: 88257 lumens
Efficiency: N/A
Efficacy: 134.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 658
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

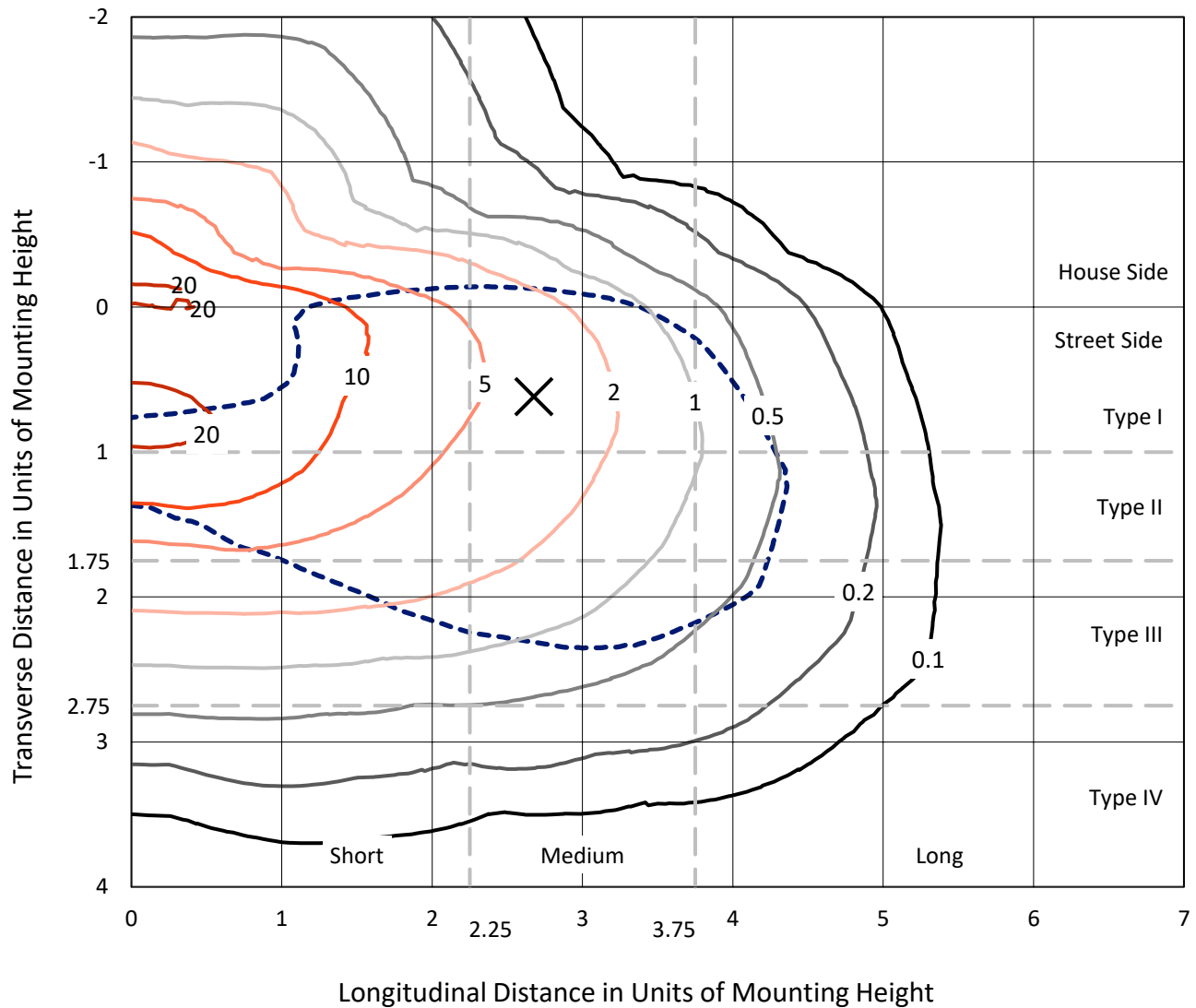


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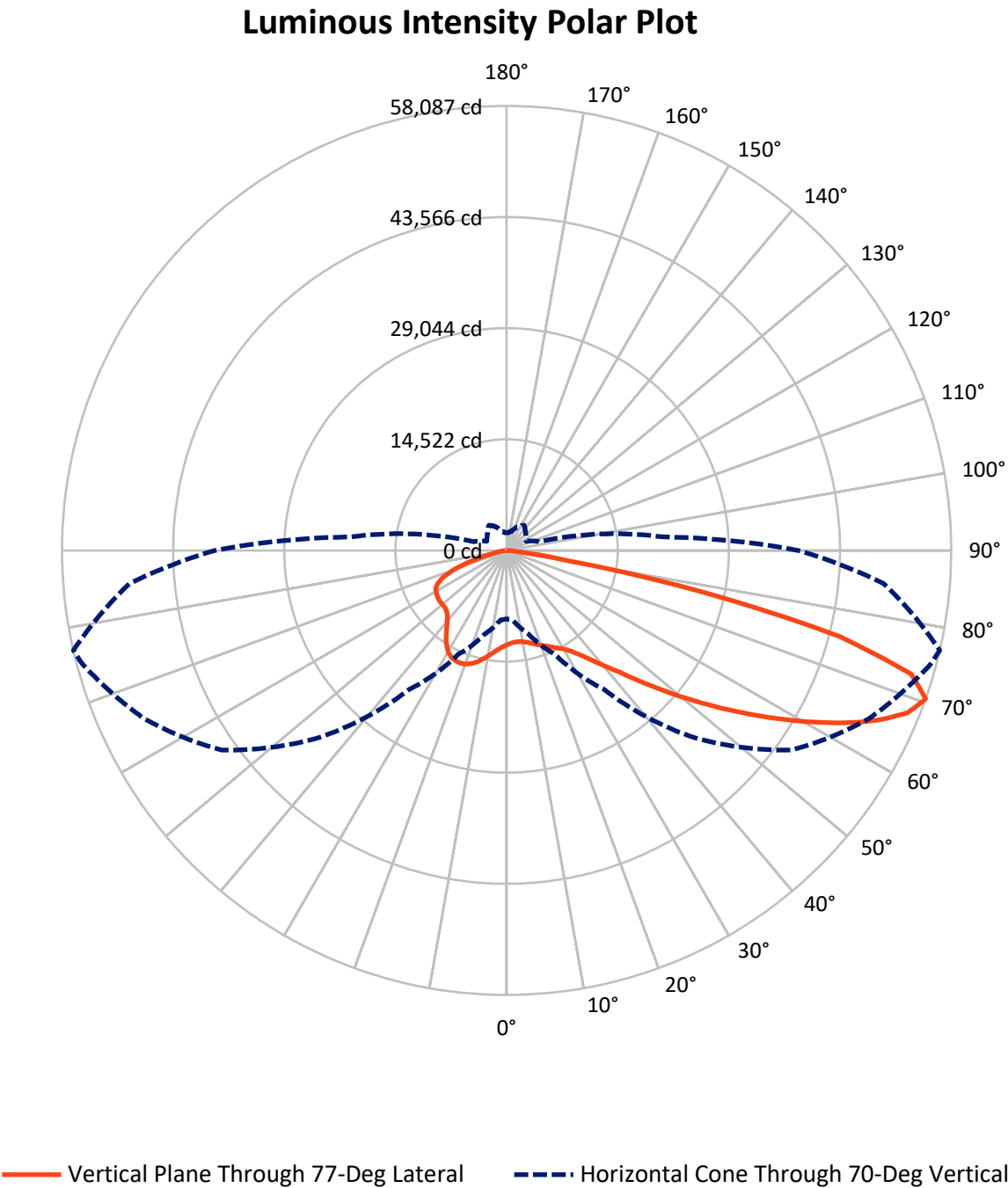
Iso-Footcandle Lines of Horizontal Illumination

× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.4 fc
Type III - Medium - N/A

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	19326.9	0.0	19326.9
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	68930.1	0.0	68930.1
	% Fixture	78.1	0.0	78.1
Total	Lumens	88257.0	0.0	88257.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1174.3	1.3
10°-20°	3389.1	3.8
20°-30°	5795.9	6.6
30°-40°	9320.4	10.6
40°-50°	14551.6	16.5
50°-60°	19437.4	22.0
60°-70°	20717.3	23.5
70°-80°	12753.4	14.5
80°-90°	1117.5	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°	88257.0	100.0
0°-180°	88257.0	100.0

Coefficient of Utilization



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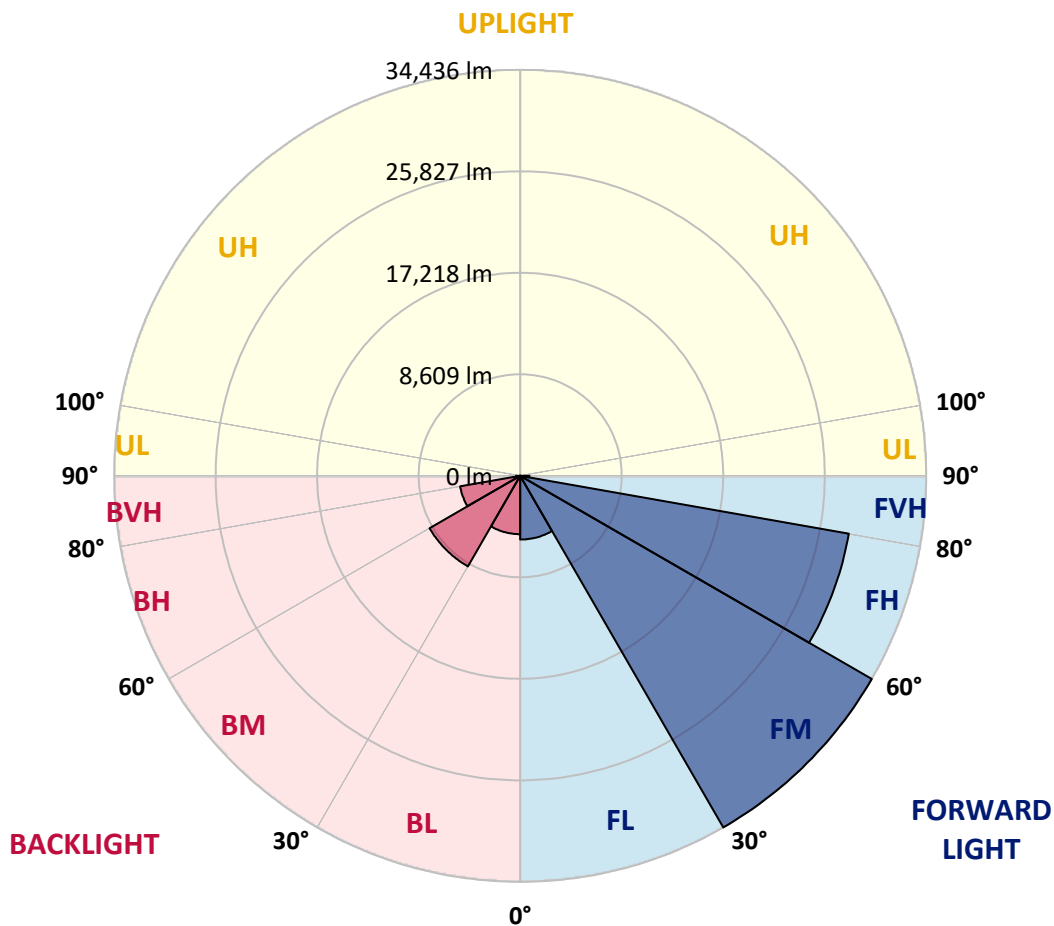
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5407.2	6.1			
FM	(30°-60°)	34436.0	39.0			
FH	(60°-80°)	28305.5	32.1			G5
FVH	(80°-90°)	781.5	0.9			G5
BL	(0°-30°)	4952.2	5.6	B4/5000		
BM	(30°-60°)	8873.4	10.1	B5		
BH	(60°-80°)	5165.2	5.9	B5		G5
BVH	(80°-90°)	336.1	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 III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	12312.7	12312.7	12312.7	12312.7	12312.7	12312.7	12312.7	12312.7	12312.7	12312.7	12312.7
2.5°	11349.9	11345.4	11404.1	11422.2	11530.7	11607.5	11752.2	11905.9	12104.7	12127.3	12249.4
5°	10694.5	10694.5	10762.3	10834.6	10974.7	11128.4	11349.9	11616.6	11960.1	12014.3	12317.2
7.5°	10138.5	10174.7	10233.4	10373.5	10536.3	10757.8	11096.8	11476.4	11928.5	12014.3	12502.5
10°	9691.0	9731.7	9804.0	9917.0	10161.1	10468.5	10911.4	11399.6	12005.3	12140.9	12773.7
12.5°	9550.9	9591.6	9632.3	9718.1	9944.1	10305.7	10834.6	11435.8	12190.6	12326.2	13144.3
15°	9876.3	9926.1	9894.4	9871.8	9989.3	10319.3	10870.8	11566.8	12421.1	12615.5	13600.9
17.5°	10626.7	10644.8	10572.4	10360.0	10341.9	10518.2	11042.5	11747.6	12710.4	12922.9	14061.9
20°	11838.0	11806.4	11657.2	11236.9	10997.3	10961.2	11336.3	12018.9	13008.7	13234.7	14559.1
22.5°	13483.4	13447.2	13148.9	12484.4	11951.1	11598.5	11761.2	12371.4	13343.2	13596.4	15042.8
25°	15535.5	15485.7	15047.3	14143.3	13316.1	12443.7	12339.8	12837.0	13754.6	13989.6	15549.0
27.5°	17931.1	17890.4	17415.8	16222.5	15029.2	13600.9	13058.5	13383.9	14184.0	14450.6	16118.6
30°	20507.5	20625.1	19784.3	18500.6	16990.9	15110.6	14025.8	14057.4	14739.9	14979.5	16810.1
32.5°	23536.0	23739.4	22726.9	21099.7	19038.5	16751.4	15246.2	14997.6	15549.0	15747.9	17682.5
35°	26537.3	26767.8	25927.1	24128.1	21755.1	18685.9	16520.8	16077.9	16624.8	16841.8	18839.6
37.5°	29131.8	29439.2	29005.3	27441.3	24661.5	21018.3	18184.2	17348.0	17949.2	18220.4	20394.5
40°	31179.4	31649.5	31617.9	30641.5	28087.7	23847.9	20295.1	18916.5	19594.5	19888.3	22279.4
42.5°	32842.8	33249.6	33602.2	33552.4	31663.1	27061.6	22776.6	20955.0	21470.3	21809.3	24399.3
45°	33990.9	34424.8	35184.2	36002.3	35102.8	30501.4	25619.7	23373.3	23843.3	24354.1	26926.0
47.5°	35016.9	35509.6	36495.0	37792.3	38022.8	33954.7	28734.1	26189.3	26618.7	27147.5	29461.8
50°	35107.3	35532.2	37060.0	38899.7	40097.5	37272.5	32078.9	29348.8	29751.1	30316.1	32178.3
52.5°	32924.2	33593.1	36260.0	38868.0	41051.2	40047.8	35401.1	32634.9	33086.9	33764.9	34989.8
55°	25556.4	26537.3	33914.0	37656.7	40712.2	41842.2	38560.7	36128.9	36707.4	37417.1	37819.4
57.5°	22012.7	22442.1	26921.5	35450.9	39166.4	42307.8	41227.5	39659.0	40590.2	41367.6	40811.7
60°	19784.3	20141.4	22790.2	32020.1	37132.3	41571.0	43288.7	42949.7	44558.8	45485.4	43871.7
62.5°	17397.7	17736.7	20145.9	26736.2	34528.8	40346.1	44590.4	45987.1	48626.9	49639.4	46755.6
65°	15029.2	15318.5	17628.3	22464.7	31220.1	39121.2	45263.9	48613.3	52392.1	53440.7	49151.2
67.5°	12389.5	12629.1	14812.3	18952.6	27197.2	37444.2	45598.4	50679.0	55669.1	56568.6	50335.4
70°	8940.7	9126.0	11381.5	14988.5	22148.3	34560.4	45462.8	52143.5	57368.7	58087.4	49440.5
72.5°	4226.3	4393.5	7042.3	9731.7	15643.9	28946.5	42719.1	50981.8	55642.0	55284.9	43962.2
75°	2255.5	2400.2	4045.5	5338.2	8262.7	19843.1	34958.2	43917.0	46723.9	44988.2	32490.2
77.5°	1527.8	1640.8	2504.1	3204.7	3774.3	9419.8	22469.2	30406.5	29253.9	26388.1	16272.2
80°	1211.4	1328.9	2052.1	2169.6	1826.1	3403.6	9284.2	14075.5	10111.4	8086.4	4628.5
82.5°	931.1	1062.2	1726.7	1573.0	994.4	1396.7	2703.0	4452.3	2590.0	1970.7	1121.0
85°	569.5	709.7	1356.0	1003.5	560.5	637.3	917.6	1238.5	791.0	659.9	402.3
87.5°	289.3	406.8	687.0	366.1	253.1	149.2	244.1	244.1	207.9	180.8	104.0
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°	12312.7	12312.7	12312.7	12312.7	12312.7	12312.7	12312.7	12312.7	12312.7	12312.7	12312.7
2.5°	12357.9	12448.3	12601.9	12746.6	12859.6	12968.1	13076.5	13135.3	13153.4	13225.7	13266.4
5°	12502.5	12669.7	12968.1	13248.3	13424.6	13533.1	13609.9	13655.1	13664.2	13686.8	13722.9
7.5°	12769.2	13035.9	13451.7	13732.0	13863.0	13854.0	13822.4	13709.4	13664.2	13623.5	13632.5
10°	13144.3	13496.9	14007.7	14202.0	14120.7	13903.7	13623.5	13293.5	13139.8	12990.7	12945.5
12.5°	13609.9	14057.4	14559.1	14550.1	14147.8	13591.8	12940.9	12434.7	12113.8	11883.3	11829.0
15°	14174.9	14690.2	15074.4	14767.1	13885.6	12886.7	11933.0	11273.0	10983.8	10730.6	10703.5
17.5°	14758.0	15309.5	15485.7	14699.3	13225.7	11842.6	10762.3	10242.5	9957.7	9822.1	9862.8
20°	15327.5	15874.5	15729.8	14310.5	12222.3	10658.3	9695.5	9410.8	9352.0	9383.7	9370.1
22.5°	15928.7	16416.9	15779.5	13560.2	10943.1	9446.9	8918.1	8927.1	9058.2	9153.1	9175.7
25°	16543.4	16873.4	15648.5	12475.4	9569.0	8556.5	8425.4	8570.0	8827.7	9013.0	9062.7
27.5°	17135.6	17280.2	15363.7	11132.9	8389.2	7919.2	7941.8	8240.1	8628.8	8886.4	8949.7
30°	17804.5	17641.8	14816.8	9623.2	7571.1	7372.2	7562.1	7910.1	8298.8	8529.4	8583.6
32.5°	18559.4	17953.7	13948.9	8226.5	6992.5	6933.8	7245.7	7471.7	7643.4	7711.2	7747.4
35°	19499.6	18392.1	12837.0	7245.7	6472.7	6612.9	6911.2	6798.2	6730.4	6694.2	6730.4
37.5°	20720.0	18984.3	11535.2	6608.3	6052.4	6382.3	6504.4	6151.8	5885.1	5754.0	5785.7
40°	22189.0	19852.1	10283.1	6115.6	5785.7	6183.4	5971.0	5546.1	5207.1	5021.8	5035.4
42.5°	23820.7	20760.7	9230.0	5745.0	5636.5	6020.7	5577.8	5071.5	4524.6	4465.8	4524.6
45°	25533.8	21696.3	8511.3	5460.2	5564.2	5880.6	5351.8	4533.6	4144.9	4384.5	4511.0
47.5°	27247.0	22555.1	8077.4	5247.8	5528.0	5722.4	5152.9	4235.3	3959.6	4307.6	4470.3
50°	29154.4	23323.5	7883.0	5094.1	5487.4	5659.1	4854.5	4158.5	3765.2	3995.7	4167.5
52.5°	31048.3	23920.2	7738.4	4940.4	5428.6	5609.4	4709.9	4068.1	3530.2	3543.7	3638.7
55°	32937.7	24308.9	7580.1	4737.0	5297.5	5500.9	4696.3	3968.6	3353.9	3290.6	3335.8
57.5°	34953.7	24530.4	7385.8	4511.0	5071.5	5225.2	4682.8	3891.8	3299.6	3195.7	3209.2
60°	37005.8	24855.8	7132.7	4235.3	4768.7	4895.2	4651.1	3864.7	3268.0	3091.7	3105.3
62.5°	38845.4	24968.8	6829.8	3973.1	4379.9	4569.8	4583.3	3842.1	3182.1	2879.3	2879.3
65°	40052.3	24480.7	6301.0	3674.8	3959.6	4235.3	4452.3	3765.2	3028.4	2725.6	2725.6
67.5°	40002.6	23088.5	5473.8	3290.6	3552.8	3864.7	4262.4	3634.1	2843.1	2535.8	2549.3
70°	38140.3	20340.3	4425.1	2843.1	3105.3	3466.9	4018.3	3439.8	2621.6	2327.8	2355.0
72.5°	32711.7	15919.7	3213.8	2318.8	2585.5	3055.6	3701.9	3204.7	2395.6	2142.5	2129.0
75°	23368.7	10075.2	2178.7	1780.9	2011.4	2590.0	3308.7	2929.0	2187.7	2151.6	2029.5
77.5°	11937.5	4813.9	1441.9	1301.8	1401.2	2043.1	2779.8	2617.1	2219.4	1776.4	1582.0
80°	3882.7	1776.4	908.5	885.9	931.1	1360.5	2151.6	2147.0	1681.5	1206.9	1066.7
82.5°	1238.5	763.9	592.1	569.5	546.9	854.3	1500.7	1699.5	1134.5	763.9	759.4
85°	492.7	456.5	348.0	320.9	230.5	402.3	786.5	1130.0	845.3	551.4	565.0
87.5°	180.8	180.8	94.9	67.8	49.7	135.6	212.4	339.0	483.6	284.8	280.2
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)