

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: P955600

Luminaire Tested: **GALN-SB8C-730-U-T3R**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P955600
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-SB8C-730-U-T3R
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(8) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 62169 lumens
Efficiency: N/A
Efficacy: 155.5 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): 399.8
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

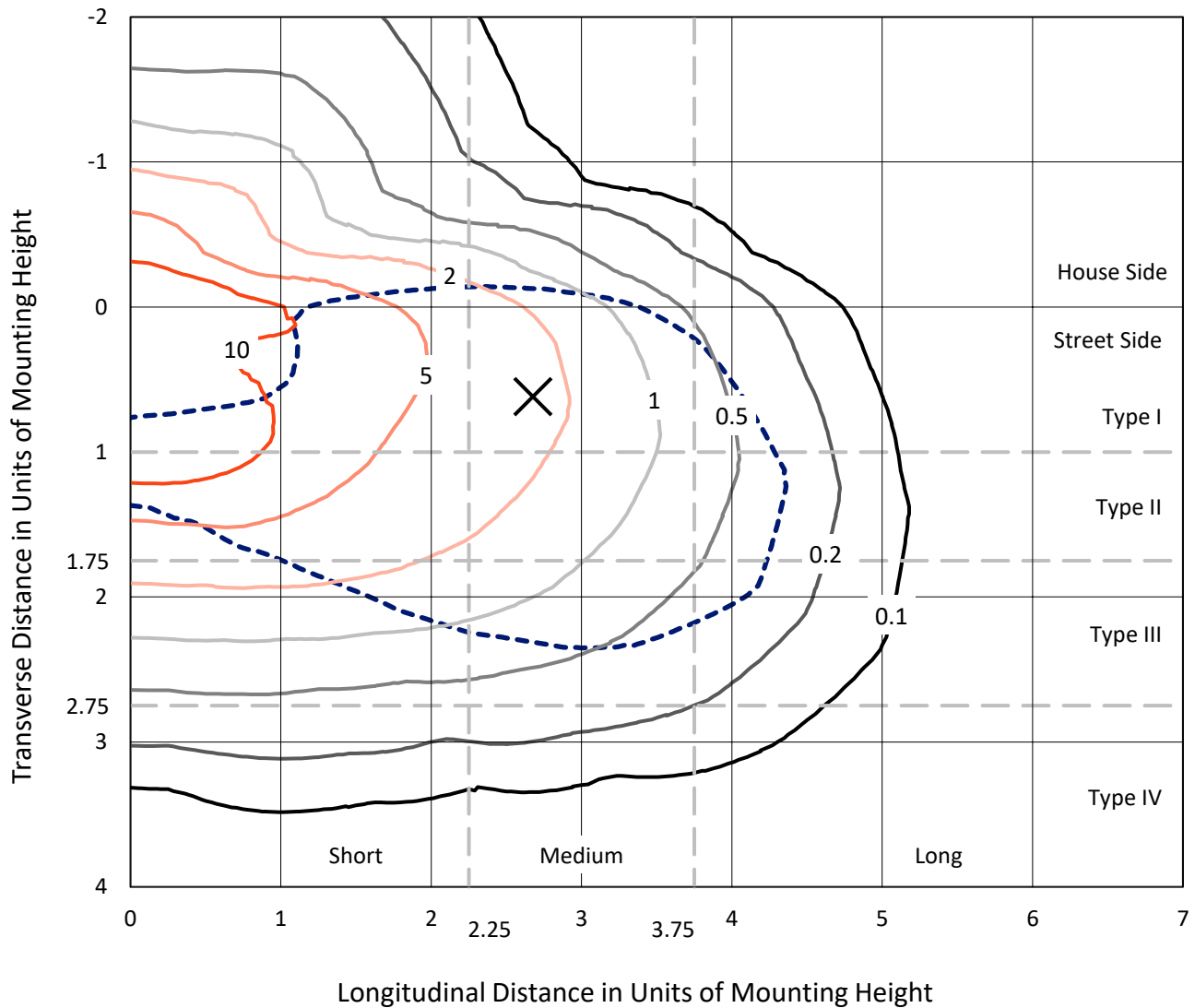


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Iso-Footcandle Lines of Horizontal Illumination

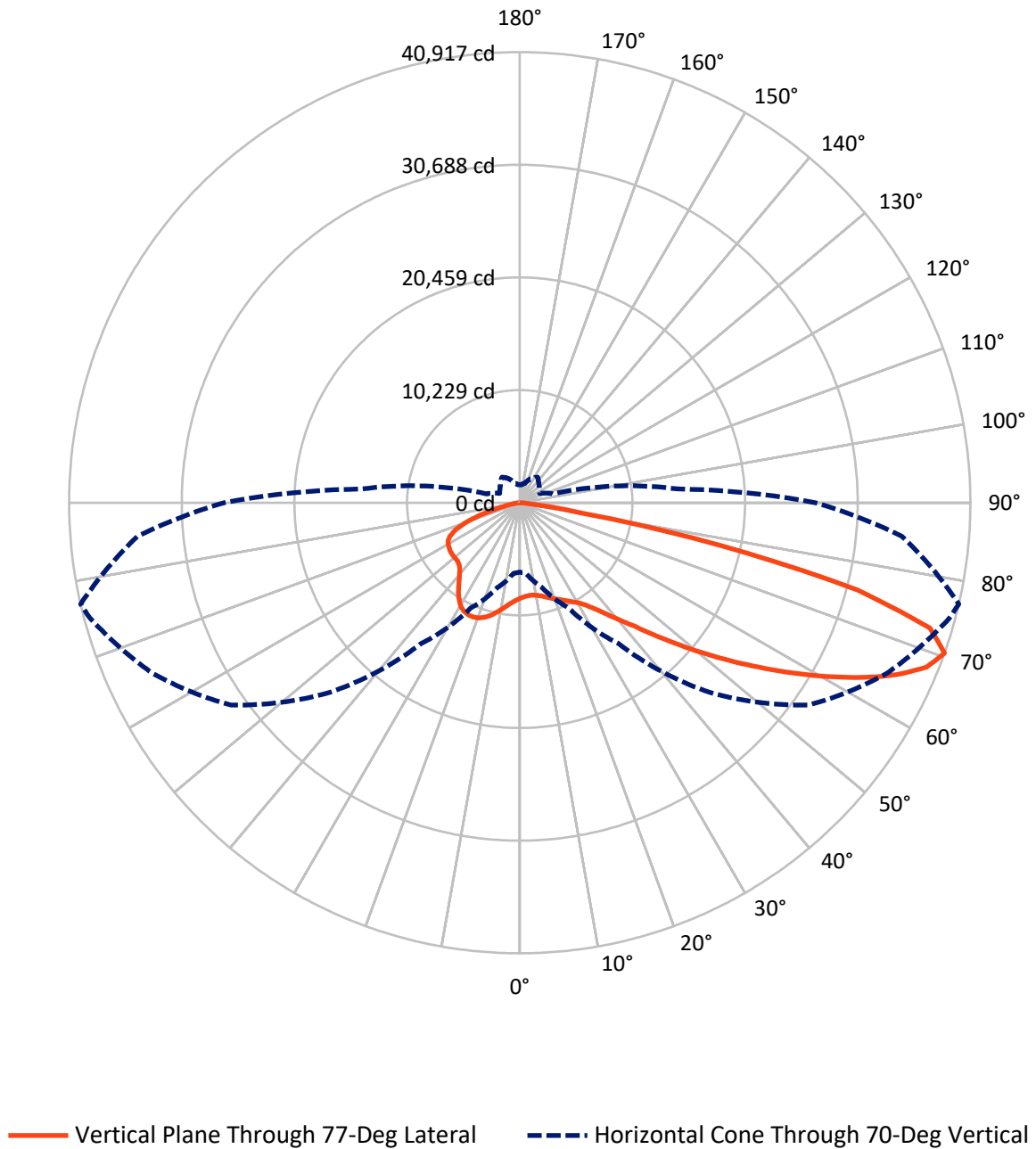
× Max cd
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.5 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	13614.0	0.0	13614.0
	% Fixture	21.9	0.0	21.9
Street Side	Lumens	48554.9	0.0	48554.9
	% Fixture	78.1	0.0	78.1
Total	Lumens	62169.0	0.0	62169.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	827.2	1.3
10°-20°	2387.3	3.8
20°-30°	4082.7	6.6
30°-40°	6565.4	10.6
40°-50°	10250.3	16.5
50°-60°	13691.9	22.0
60°-70°	14593.4	23.5
70°-80°	8983.6	14.5
80°-90°	787.2	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°	62169.0	100.0
0°-180°	62169.0	100.0

Coefficient of Utilization



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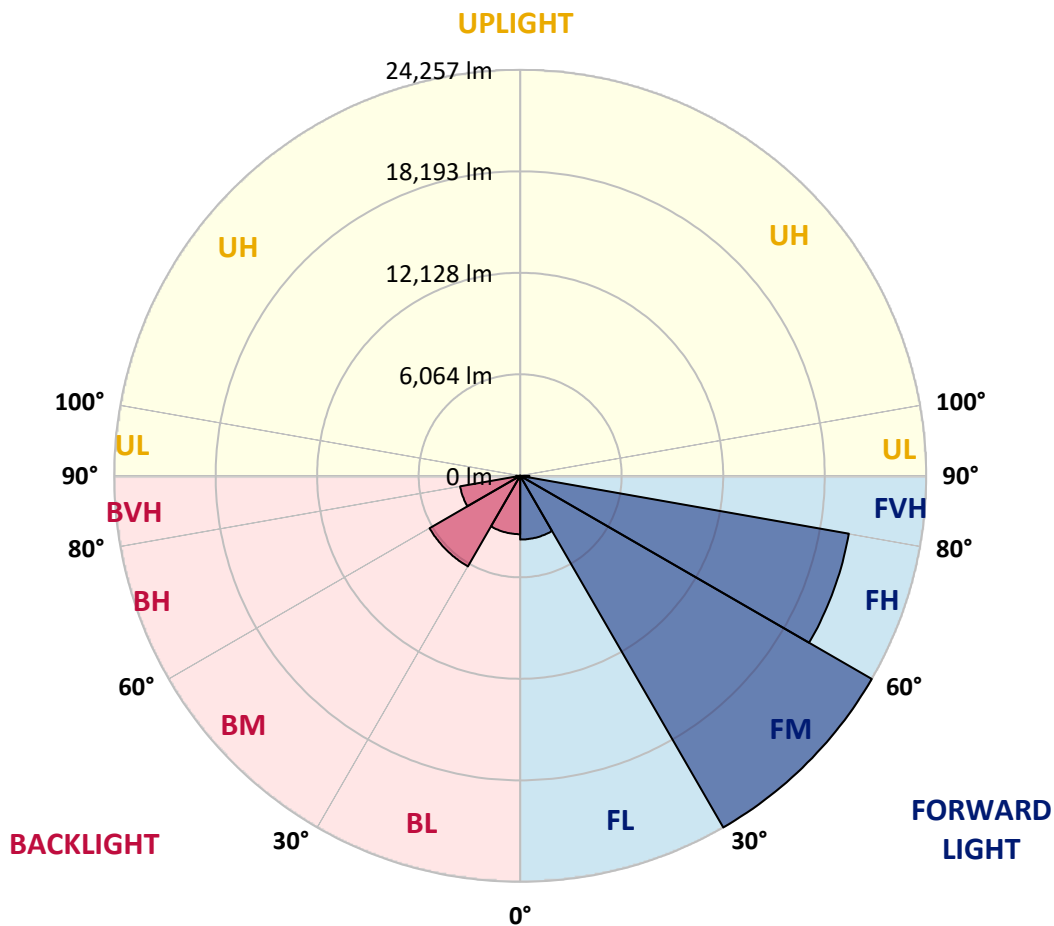
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3808.9	6.1			
FM	(30°-60°)	24257.0	39.0			
FH	(60°-80°)	19938.6	32.1			G5
FVH	(80°-90°)	550.5	0.9			G4/750
BL	(0°-30°)	3488.3	5.6	B4/5000		
BM	(30°-60°)	6250.5	10.1	B4/8500		
BH	(60°-80°)	3638.4	5.9	B4/5000		G4/5000
BVH	(80°-90°)	236.8	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°	8673.1	8673.1	8673.1	8673.1	8673.1	8673.1	8673.1	8673.1	8673.1	8673.1	8673.1
2.5°	7995.0	7991.8	8033.2	8045.9	8122.3	8176.4	8278.3	8386.6	8526.7	8542.6	8628.6
5°	7533.3	7533.3	7581.0	7632.0	7730.7	7838.9	7995.0	8182.8	8424.8	8463.0	8676.3
7.5°	7141.7	7167.1	7208.5	7307.2	7421.8	7577.9	7816.7	8084.1	8402.5	8463.0	8806.9
10°	6826.4	6855.1	6906.0	6985.6	7157.6	7374.1	7686.1	8030.0	8456.6	8552.2	8997.9
12.5°	6727.7	6756.4	6785.0	6845.5	7004.7	7259.5	7632.0	8055.5	8587.2	8682.7	9259.0
15°	6957.0	6992.0	6969.7	6953.8	7036.6	7269.0	7657.5	8147.8	8749.6	8886.5	9580.6
17.5°	7485.5	7498.3	7447.3	7297.7	7284.9	7409.1	7778.4	8275.1	8953.3	9103.0	9905.3
20°	8338.8	8316.5	8211.5	7915.4	7746.6	7721.1	7985.4	8466.2	9163.5	9322.7	10255.6
22.5°	9497.8	9472.3	9262.2	8794.1	8418.4	8170.1	8284.7	8714.5	9399.1	9577.4	10596.3
25°	10943.3	10908.3	10599.4	9962.7	9380.0	8765.5	8692.2	9042.5	9688.8	9854.4	10952.9
27.5°	12630.8	12602.2	12267.8	11427.3	10586.7	9580.6	9198.5	9427.7	9991.3	10179.2	11354.0
30°	14445.7	14528.5	13936.3	13032.0	11968.6	10644.0	9879.9	9902.2	10382.9	10551.7	11841.2
32.5°	16578.9	16722.2	16009.0	14862.8	13410.9	11799.8	10739.5	10564.4	10952.9	11093.0	12455.7
35°	18693.1	18855.5	18263.3	16996.0	15324.5	13162.5	11637.4	11325.4	11710.7	11863.5	13270.8
37.5°	20520.7	20737.2	20431.6	19329.9	17371.8	14805.5	12809.1	12220.1	12643.6	12834.6	14366.1
40°	21963.0	22294.2	22271.9	21584.2	19785.2	16798.6	14296.0	13324.9	13802.5	14009.5	15693.8
42.5°	23134.7	23421.3	23669.7	23634.6	22303.7	19062.4	16044.0	14760.9	15123.9	15362.7	17187.1
45°	23943.5	24249.1	24784.0	25360.3	24726.7	21485.5	18046.8	16464.3	16795.5	17155.2	18966.9
47.5°	24666.2	25013.3	25707.4	26621.2	26783.6	23918.0	20240.5	18447.9	18750.4	19122.9	20753.1
50°	24729.9	25029.2	26105.4	27401.3	28245.0	26255.0	22596.7	20673.5	20956.9	21354.9	22666.7
52.5°	23192.1	23663.3	25541.8	27379.0	28916.8	28210.0	24936.9	22988.3	23306.7	23784.3	24647.1
55°	18002.2	18693.1	23889.3	26525.7	28678.0	29474.0	27162.5	25449.5	25857.0	26356.9	26640.3
57.5°	15505.9	15808.4	18963.7	24971.9	27589.1	29802.0	29041.0	27936.2	28592.1	29139.7	28748.1
60°	13936.3	14187.8	16053.6	22555.3	26156.3	29283.0	30492.9	30254.1	31387.6	32040.3	30903.6
62.5°	12255.1	12493.9	14191.0	18833.2	24322.4	28420.1	31409.9	32393.7	34253.2	34966.4	32935.0
65°	10586.7	10790.5	12417.5	15824.3	21991.7	27557.3	31884.3	34243.6	36905.4	37644.1	34622.5
67.5°	8727.3	8896.0	10433.9	13350.4	19158.0	26376.0	32119.9	35698.7	39213.8	39847.4	35456.7
70°	6297.9	6428.4	8017.2	10558.1	15601.5	24344.7	32024.4	36730.3	40411.0	40917.2	34826.3
72.5°	2977.0	3094.8	4960.6	6855.1	11019.7	20390.2	30091.7	35912.0	39194.7	38943.2	30967.3
75°	1588.8	1690.7	2849.7	3760.3	5820.3	13977.6	24624.8	30935.5	32912.7	31690.1	22886.4
77.5°	1076.2	1155.8	1763.9	2257.4	2658.6	6635.4	15827.5	21418.6	20606.7	18588.0	11462.3
80°	853.3	936.1	1445.5	1528.3	1286.3	2397.5	6539.9	9914.9	7122.5	5696.1	3260.4
82.5°	655.9	748.2	1216.3	1108.0	700.5	983.8	1904.0	3136.2	1824.4	1388.2	789.6
85°	401.2	499.9	955.2	706.8	394.8	448.9	646.3	872.4	557.2	464.9	283.4
87.5°	203.8	286.6	484.0	257.9	178.3	105.1	171.9	171.9	146.5	127.4	73.2
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°	8673.1	8673.1	8673.1	8673.1	8673.1	8673.1	8673.1	8673.1	8673.1	8673.1	8673.1
2.5°	8705.0	8768.7	8876.9	8978.8	9058.4	9134.8	9211.2	9252.6	9265.4	9316.3	9345.0
5°	8806.9	8924.7	9134.8	9332.2	9456.4	9532.8	9586.9	9618.8	9625.2	9641.1	9666.5
7.5°	8994.7	9182.6	9475.5	9672.9	9765.2	9758.9	9736.6	9657.0	9625.2	9596.5	9602.9
10°	9259.0	9507.3	9867.1	10004.0	9946.7	9793.9	9596.5	9364.1	9255.8	9150.7	9118.9
12.5°	9586.9	9902.2	10255.6	10249.2	9965.8	9574.2	9115.7	8759.1	8533.0	8370.7	8332.5
15°	9984.9	10347.9	10618.6	10402.0	9781.2	9077.5	8405.7	7940.8	7737.1	7558.8	7539.6
17.5°	10395.7	10784.1	10908.3	10354.3	9316.3	8342.0	7581.0	7214.9	7014.3	6918.8	6947.4
20°	10796.9	11182.1	11080.2	10080.5	8609.5	7507.8	6829.6	6629.0	6587.6	6609.9	6600.4
22.5°	11220.3	11564.2	11115.2	9551.9	7708.4	6654.5	6282.0	6288.3	6380.7	6447.5	6463.5
25°	11653.3	11885.8	11022.9	8787.8	6740.5	6027.3	5934.9	6036.8	6218.3	6348.8	6383.9
27.5°	12070.4	12172.3	10822.3	7842.1	5909.5	5578.3	5594.2	5804.4	6078.2	6259.7	6304.3
30°	12541.7	12427.0	10437.1	6778.7	5333.2	5193.1	5326.8	5572.0	5845.8	6008.2	6046.4
32.5°	13073.4	12646.7	9825.7	5794.8	4925.6	4884.2	5103.9	5263.1	5384.1	5431.9	5457.3
35°	13735.7	12955.6	9042.5	5103.9	4559.4	4658.2	4868.3	4788.7	4740.9	4715.5	4740.9
37.5°	14595.3	13372.7	8125.5	4655.0	4263.3	4495.8	4581.7	4333.4	4145.5	4053.2	4075.5
40°	15630.1	13984.0	7243.5	4307.9	4075.5	4355.7	4206.0	3906.7	3667.9	3537.4	3546.9
42.5°	16779.5	14624.0	6501.7	4046.8	3970.4	4241.1	3929.0	3572.4	3187.2	3145.8	3187.2
45°	17986.3	15283.1	5995.4	3846.2	3919.5	4142.3	3769.8	3193.5	2919.7	3088.5	3177.6
47.5°	19193.0	15888.0	5689.8	3696.6	3894.0	4030.9	3629.7	2983.4	2789.2	3034.3	3148.9
50°	20536.6	16429.3	5552.8	3588.3	3865.3	3986.3	3419.6	2929.3	2652.2	2814.6	2935.6
52.5°	21870.7	16849.6	5451.0	3480.1	3824.0	3951.3	3317.7	2865.6	2486.7	2496.2	2563.1
55°	23201.6	17123.4	5339.5	3336.8	3731.6	3874.9	3308.1	2795.5	2362.5	2317.9	2349.8
57.5°	24621.7	17279.4	5202.6	3177.6	3572.4	3680.7	3298.6	2741.4	2324.3	2251.1	2260.6
60°	26067.2	17508.7	5024.3	2983.4	3359.1	3448.2	3276.3	2722.3	2302.0	2177.8	2187.4
62.5°	27363.1	17588.3	4811.0	2798.7	3085.3	3219.0	3228.5	2706.4	2241.5	2028.2	2028.2
65°	28213.2	17244.4	4438.5	2588.6	2789.2	2983.4	3136.2	2652.2	2133.3	1919.9	1919.9
67.5°	28178.2	16263.7	3855.8	2317.9	2502.6	2722.3	3002.5	2559.9	2002.7	1786.2	1795.8
70°	26866.4	14327.9	3117.1	2002.7	2187.4	2442.1	2830.6	2423.0	1846.7	1639.7	1658.8
72.5°	23042.4	11214.0	2263.8	1633.4	1821.2	2152.4	2607.7	2257.4	1687.5	1509.2	1499.7
75°	16461.1	7097.1	1534.7	1254.5	1416.9	1824.4	2330.7	2063.2	1541.0	1515.6	1429.6
77.5°	8408.9	3390.9	1015.7	917.0	987.0	1439.2	1958.1	1843.5	1563.3	1251.3	1114.4
80°	2735.0	1251.3	640.0	624.1	655.9	958.4	1515.6	1512.4	1184.4	850.1	751.4
82.5°	872.4	538.1	417.1	401.2	385.3	601.8	1057.1	1197.2	799.2	538.1	534.9
85°	347.1	321.6	245.2	226.1	162.4	283.4	554.0	796.0	595.4	388.4	398.0
87.5°	127.4	127.4	66.9	47.8	35.0	95.5	149.6	238.8	340.7	200.6	197.4
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)