

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: P942639

Luminaire Tested: **GALN-SB6D-727-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942639
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-24)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SB6D-727-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 56571 lumens
Efficiency: N/A
Efficacy: 128.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B4 - U0 - G5

Input Watts (W): 440.1
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

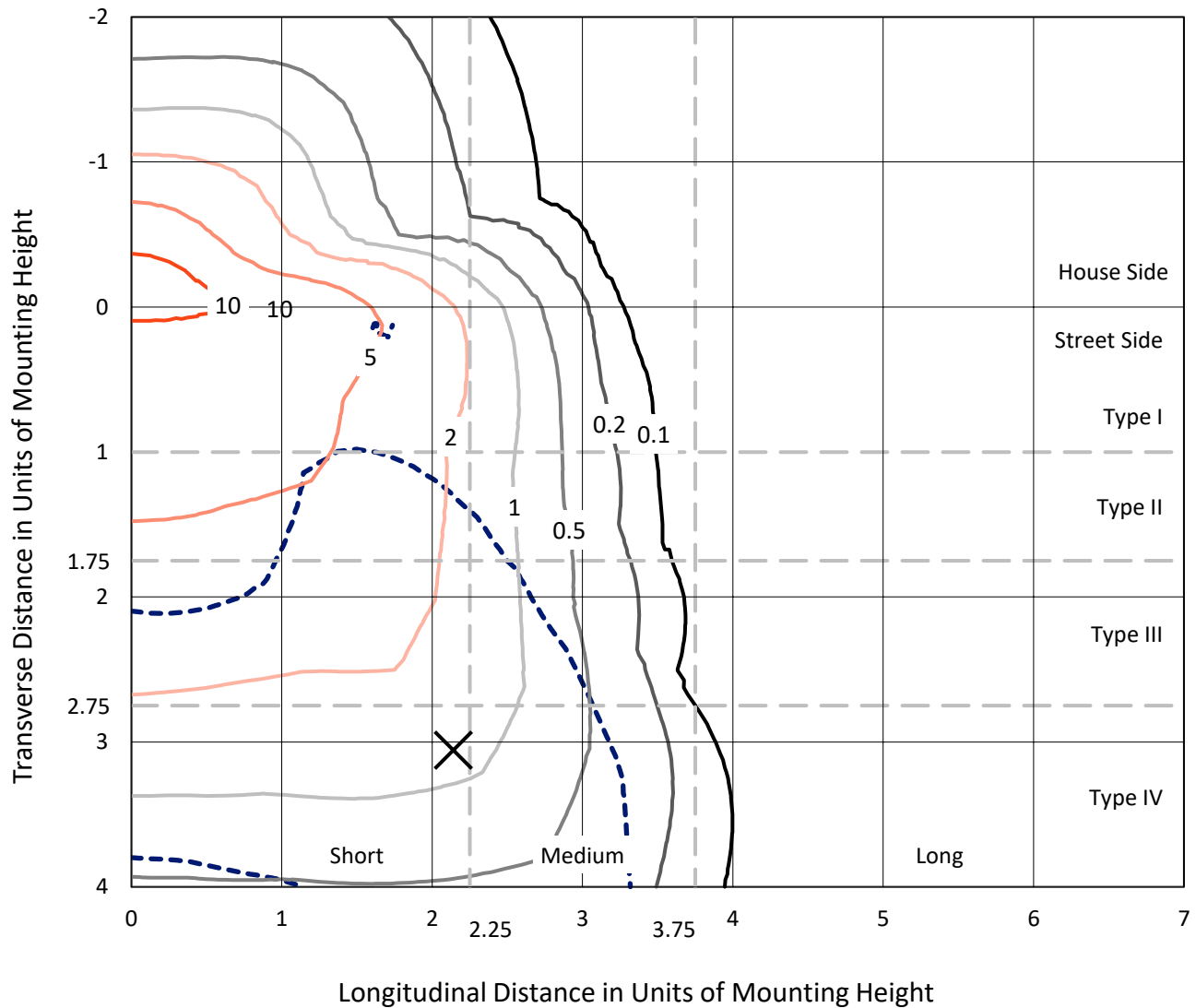


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

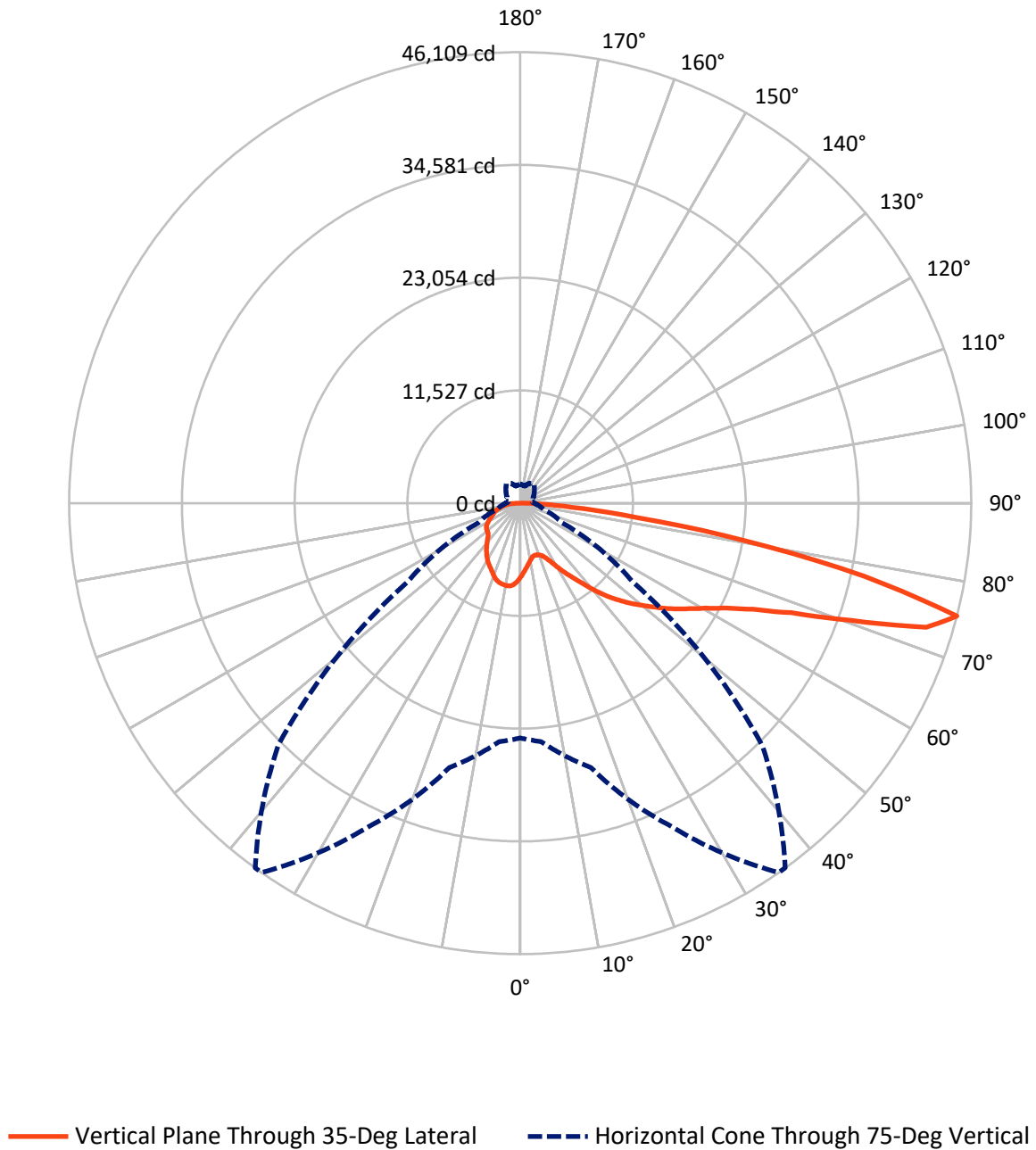


Based on 25 foot mounting height. Maximum calculated value = 13.3 fc
Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	13462.5	0.0	13462.5
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	43108.5	0.0	43108.5
	% Fixture	76.2	0.0	76.2
Total	Lumens	56571.0	0.0	56571.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	713.7	1.3
10°-20°	2058.7	3.6
20°-30°	3457.2	6.1
30°-40°	5372.9	9.5
40°-50°	7974.8	14.1
50°-60°	11009.7	19.5
60°-70°	13357.3	23.6
70°-80°	11038.8	19.5
80°-90°	1587.7	2.8
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°	56571.0	100.0
0°-180°	56571.0	100.0

Coefficient of Utilization



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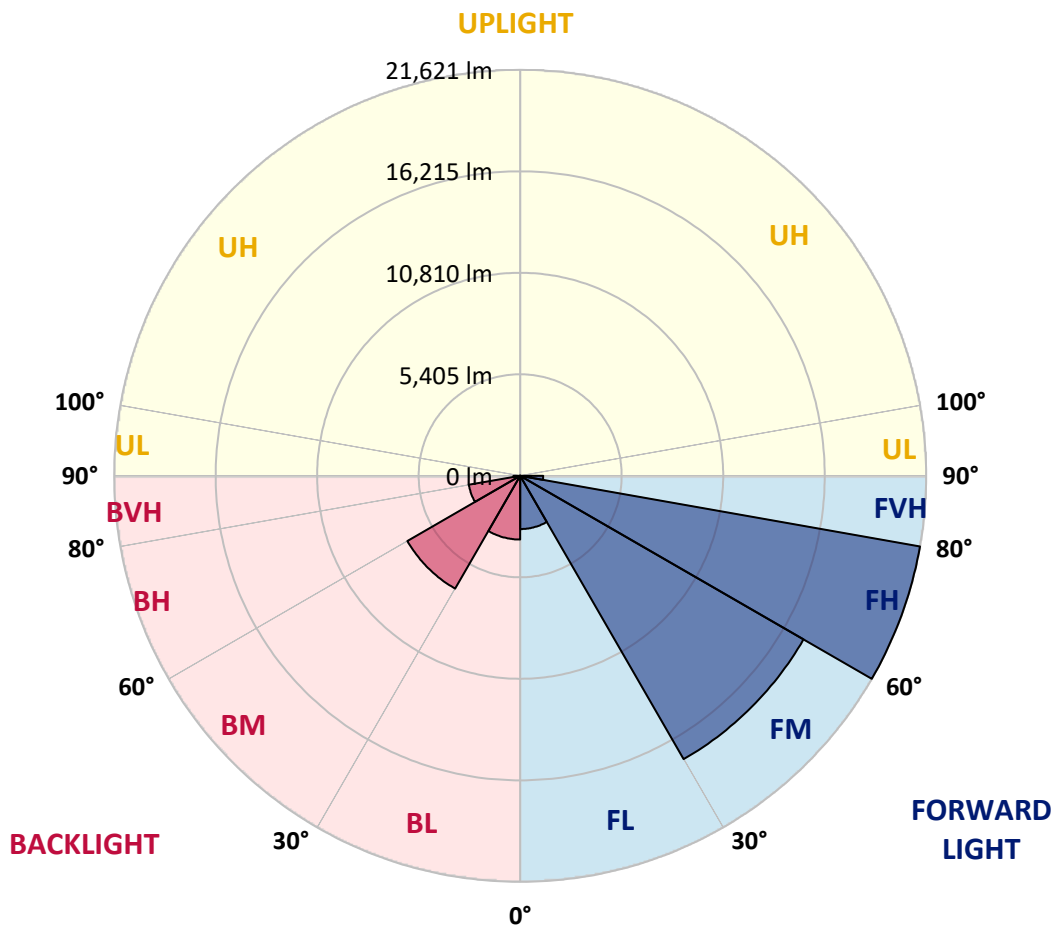
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2836.9	5.0			
FM	(30°-60°)	17420.8	30.8			
FH	(60°-80°)	21620.6	38.2			G5
FVH	(80°-90°)	1230.2	2.2			G5
BL	(0°-30°)	3392.7	6.0	B4/5000		
BM	(30°-60°)	6936.7	12.3	B4/8500		
BH	(60°-80°)	2775.5	4.9	B4/5000		G4/5000
BVH	(80°-90°)	357.5	0.6			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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	7538.5	7538.5	7538.5	7538.5	7538.5	7538.5	7538.5	7538.5	7538.5	7538.5	7538.5
2.5°	6951.3	6994.1	7012.5	7003.3	7049.2	7043.0	7107.3	7186.8	7296.9	7403.9	7559.9
5°	6416.1	6462.0	6501.7	6538.4	6627.1	6654.6	6755.6	6908.5	7110.3	7315.2	7572.1
7.5°	5917.6	5957.4	6018.5	6085.8	6235.7	6263.2	6431.4	6669.9	6951.3	7251.0	7605.7
10°	5510.9	5550.6	5614.9	5691.3	5877.9	5911.5	6125.6	6443.6	6810.6	7189.8	7642.4
12.5°	5336.6	5348.8	5385.5	5461.9	5624.0	5645.4	5880.9	6244.8	6673.0	7144.0	7697.5
15°	5327.4	5351.9	5354.9	5394.7	5529.2	5538.4	5755.5	6116.4	6587.4	7134.8	7780.1
17.5°	5419.1	5437.5	5410.0	5434.4	5547.6	5562.9	5734.1	6055.2	6559.8	7174.5	7920.7
20°	5663.8	5679.1	5596.5	5562.9	5645.4	5657.7	5825.9	6095.0	6587.4	7257.1	8113.4
22.5°	6183.7	6192.9	5991.0	5853.4	5859.5	5865.6	6012.4	6257.1	6694.4	7407.0	8358.1
25°	6994.1	6988.0	6666.9	6400.8	6247.9	6214.3	6312.1	6520.1	6874.8	7605.7	8673.1
27.5°	7942.2	7896.3	7575.2	7177.6	6844.3	6795.3	6773.9	6862.6	7131.7	7868.8	9058.4
30°	9012.5	8969.7	8624.1	8104.2	7642.4	7562.9	7361.1	7315.2	7514.0	8226.6	9593.6
32.5°	10186.9	10159.3	9746.5	9116.5	8498.7	8407.0	8067.5	7945.2	8101.2	8767.9	10339.8
35°	11171.6	11147.1	10804.6	10156.3	9400.9	9287.8	8942.2	8804.6	8884.1	9462.1	11315.3
37.5°	12061.5	12049.3	11755.7	11245.0	10465.2	10327.5	9939.2	9893.3	9878.0	10376.5	12498.9
40°	12887.3	12856.7	12550.9	12281.7	11703.7	11578.4	11235.8	11196.1	11079.9	11501.9	13838.4
42.5°	13801.7	13722.2	13278.7	13153.3	12997.4	12893.4	12688.5	12694.6	12437.7	12771.1	15257.4
45°	14547.9	14502.0	14046.3	13972.9	14141.1	14098.3	14275.7	14321.6	13823.1	14101.4	16731.4
47.5°	15349.1	15306.3	14921.0	14869.0	15324.7	15336.9	15963.8	15979.1	15174.8	15483.7	18208.5
50°	16336.9	16275.8	15893.5	15957.7	16468.4	16514.3	17661.1	17557.1	16419.5	16887.4	19673.4
52.5°	16988.3	17025.0	16942.4	17046.4	17743.7	17786.5	19330.9	19064.8	17651.9	18272.8	21110.8
55°	17468.5	17541.8	17798.7	18037.3	19089.3	19132.1	20905.9	20499.1	18673.4	19557.2	22462.5
57.5°	18086.2	17982.2	18462.4	18927.2	20367.6	20480.8	22438.0	21881.4	19578.6	20664.3	23389.1
60°	18973.1	18899.7	19272.8	19960.9	21798.9	21979.3	24058.9	23126.1	20242.2	21542.0	23569.6
62.5°	20771.3	20587.8	20645.9	21254.5	23603.2	23841.7	25887.7	24211.8	20572.5	21884.5	22603.2
65°	23459.5	23144.5	22850.9	23272.9	26144.6	26380.1	27952.0	25065.0	20450.2	21220.9	20037.3
67.5°	26844.9	26533.0	26172.1	26569.7	29887.8	30074.4	30499.5	25545.2	19486.9	18664.2	15502.0
70°	29637.0	29520.8	29952.0	31588.2	35866.6	35872.7	33765.6	25147.6	16847.6	13232.8	8969.7
72.5°	29267.0	29196.7	31468.9	36527.2	43402.0	43239.9	36857.5	22138.3	11349.0	5969.6	3361.0
75°	24009.9	24465.6	27985.6	36438.5	46108.5	46087.1	34964.4	14073.8	4694.3	2474.1	1737.1
77.5°	12875.0	13596.8	18168.8	26903.0	35995.0	36536.3	24581.8	4923.7	2015.4	1584.1	1201.9
80°	4198.9	4828.9	7241.8	13697.7	23389.1	23288.2	10535.5	1932.8	1379.2	1122.4	831.8
82.5°	1782.9	1856.3	3235.6	6468.1	12003.4	11816.9	3354.8	1110.1	969.5	767.6	513.8
85°	697.3	779.8	1428.2	2990.9	5198.9	5085.8	1211.0	550.5	620.8	501.5	305.8
87.5°	229.4	278.3	510.7	1024.5	1617.8	1559.7	296.6	189.6	269.1	229.4	110.1
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°	7538.5	7538.5	7538.5	7538.5	7538.5	7538.5	7538.5	7538.5	7538.5	7538.5	7538.5
2.5°	7602.7	7651.6	7709.7	7795.4	7868.8	7929.9	7994.1	8033.9	8049.2	8095.1	8092.0
5°	7657.7	7764.8	7908.5	8049.2	8186.8	8269.4	8342.8	8379.5	8413.1	8437.6	8443.7
7.5°	7749.5	7887.1	8113.4	8296.9	8413.1	8480.4	8529.3	8517.1	8529.3	8535.4	8544.6
10°	7829.0	8021.7	8290.8	8465.1	8553.8	8556.8	8544.6	8501.8	8480.4	8483.5	8489.6
12.5°	7923.8	8137.9	8428.4	8575.2	8599.7	8532.4	8480.4	8407.0	8379.5	8367.2	8361.1
15°	8052.2	8296.9	8578.3	8633.3	8572.1	8486.5	8397.8	8278.6	8217.4	8168.5	8183.7
17.5°	8208.2	8477.3	8694.5	8654.7	8523.2	8382.5	8238.8	8058.4	7933.0	7881.0	7884.0
20°	8425.3	8666.9	8783.2	8608.8	8410.1	8196.0	7951.3	7731.1	7614.9	7562.9	7556.8
22.5°	8688.4	8920.8	8868.8	8529.3	8248.0	7905.5	7599.6	7437.5	7379.4	7342.7	7348.9
25°	9003.3	9202.1	8930.0	8413.1	7981.9	7520.1	7284.6	7232.6	7205.1	7177.6	7177.6
27.5°	9413.1	9520.2	8975.8	8241.9	7566.0	7110.3	7024.7	7033.9	7024.7	6978.8	6988.0
30°	9954.4	9933.0	9018.6	7963.6	7088.9	6740.3	6746.4	6786.2	6792.3	6761.7	6777.0
32.5°	10667.0	10449.9	9040.0	7602.7	6633.2	6416.1	6422.2	6465.0	6495.6	6443.6	6468.1
35°	11529.4	11052.3	9006.4	7150.1	6281.5	6107.2	6061.4	6073.6	6082.8	6033.8	6067.5
37.5°	12535.6	11728.2	8856.6	6648.5	5991.0	5804.5	5706.6	5624.0	5575.1	5529.2	5559.8
40°	13639.6	12465.2	8581.3	6159.2	5666.8	5483.4	5336.6	5180.6	5015.5	4954.3	4981.8
42.5°	14795.6	13223.7	8248.0	5691.3	5293.7	5143.9	4987.9	4761.6	4513.9	4388.5	4403.8
45°	15994.4	14000.4	7920.7	5229.5	4911.5	4847.3	4666.8	4394.6	4125.5	3966.5	3954.3
47.5°	17168.7	14734.4	7440.6	4764.7	4553.7	4624.0	4483.3	4232.6	3932.8	3682.1	3654.6
50°	18291.1	15422.5	6654.6	4293.7	4263.1	4556.7	4422.2	4061.3	3718.8	3397.7	3370.1
52.5°	19404.3	15979.1	5648.5	3865.6	4107.2	4538.4	4342.6	3945.1	3526.1	3189.7	3153.0
55°	20349.3	16266.6	4679.0	3498.6	3880.9	4382.4	4247.8	3807.5	3253.9	2896.1	2865.5
57.5°	20887.5	16034.2	3871.7	3137.7	3568.9	4125.5	4085.8	3513.9	2929.8	2654.5	2617.8
60°	20655.1	15092.2	3211.1	2822.7	3272.3	3847.2	3804.4	3223.3	2682.0	2422.1	2385.4
62.5°	19373.7	13297.1	2688.2	2547.5	3003.2	3562.8	3523.0	3000.1	2492.4	2241.7	2201.9
65°	16792.6	10816.9	2281.4	2318.1	2731.0	3220.3	3278.4	2813.5	2342.6	2097.9	2058.2
67.5°	12807.8	7835.1	1963.4	2119.3	2464.9	2883.9	3052.1	2679.0	2217.2	1984.8	1948.1
70°	7299.9	4449.7	1694.2	1926.7	2229.4	2571.9	2877.8	2571.9	2082.6	1890.0	1865.5
72.5°	2767.7	2042.9	1464.9	1734.0	2003.1	2308.9	2685.1	2403.7	1926.7	1782.9	1758.5
75°	1477.1	1244.7	1232.5	1507.7	1743.2	2052.1	2443.5	2238.6	1810.5	1883.9	1945.0
77.5°	1006.1	880.8	1030.6	1290.6	1458.8	1767.6	2186.6	1987.8	1568.9	1562.7	1440.4
80°	697.3	623.9	837.9	1039.8	1128.5	1486.3	1908.3	1706.5	1278.3	1192.7	1140.7
82.5°	419.0	406.7	626.9	776.8	798.2	1146.8	1581.1	1431.2	1045.9	911.3	917.5
85°	229.4	241.6	400.6	455.7	464.8	801.2	1238.6	1107.1	804.3	675.9	682.0
87.5°	64.2	82.6	146.8	180.4	223.2	415.9	737.0	657.5	403.7	281.4	281.4
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)