

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: P942649

Luminaire Tested: **GALN-SB6D-730-U-T4FT**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P942649
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-730-U-T4FT
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE
(6) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 60991 lumens
Efficiency: N/A
Efficacy: 138.6 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



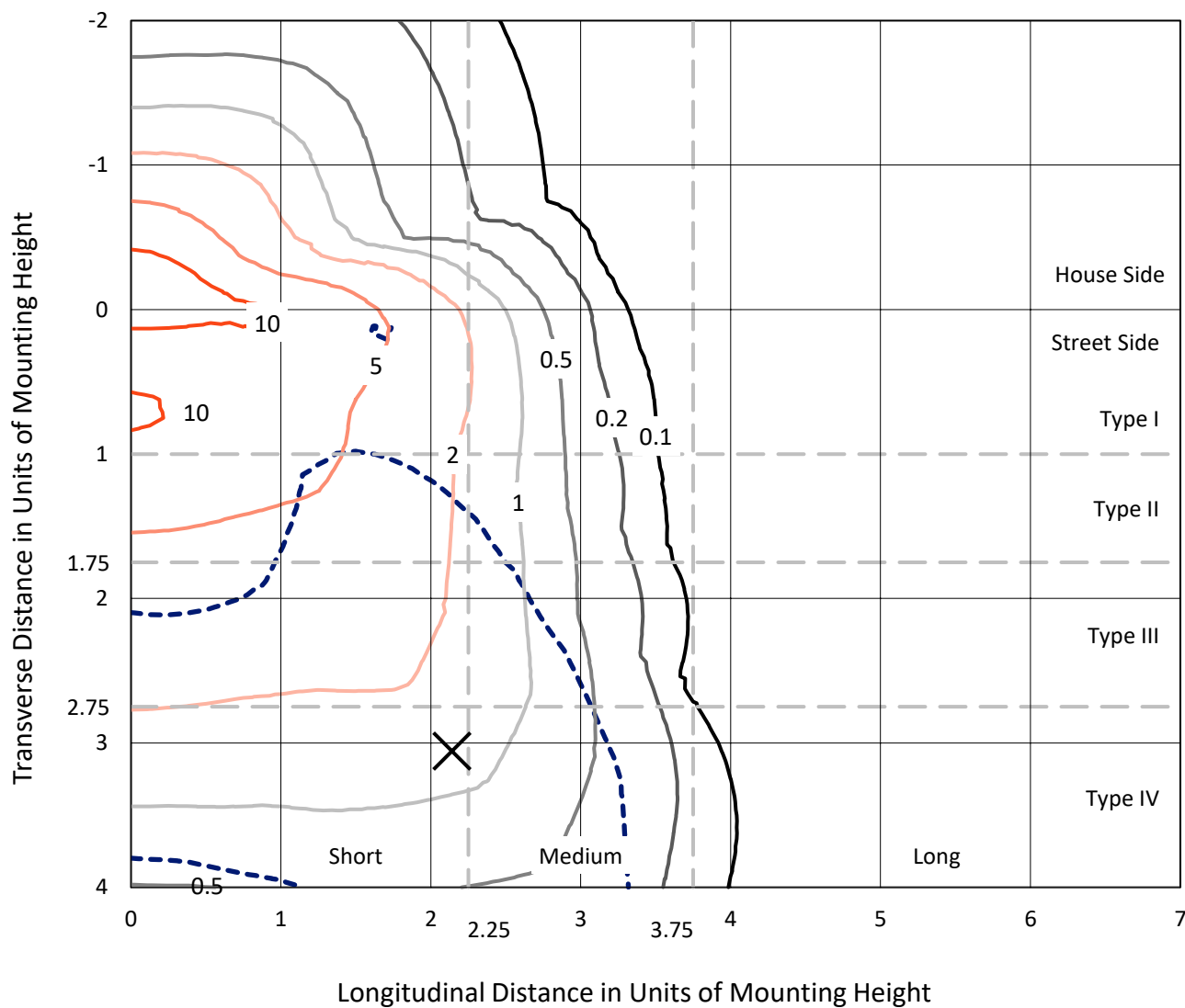
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd



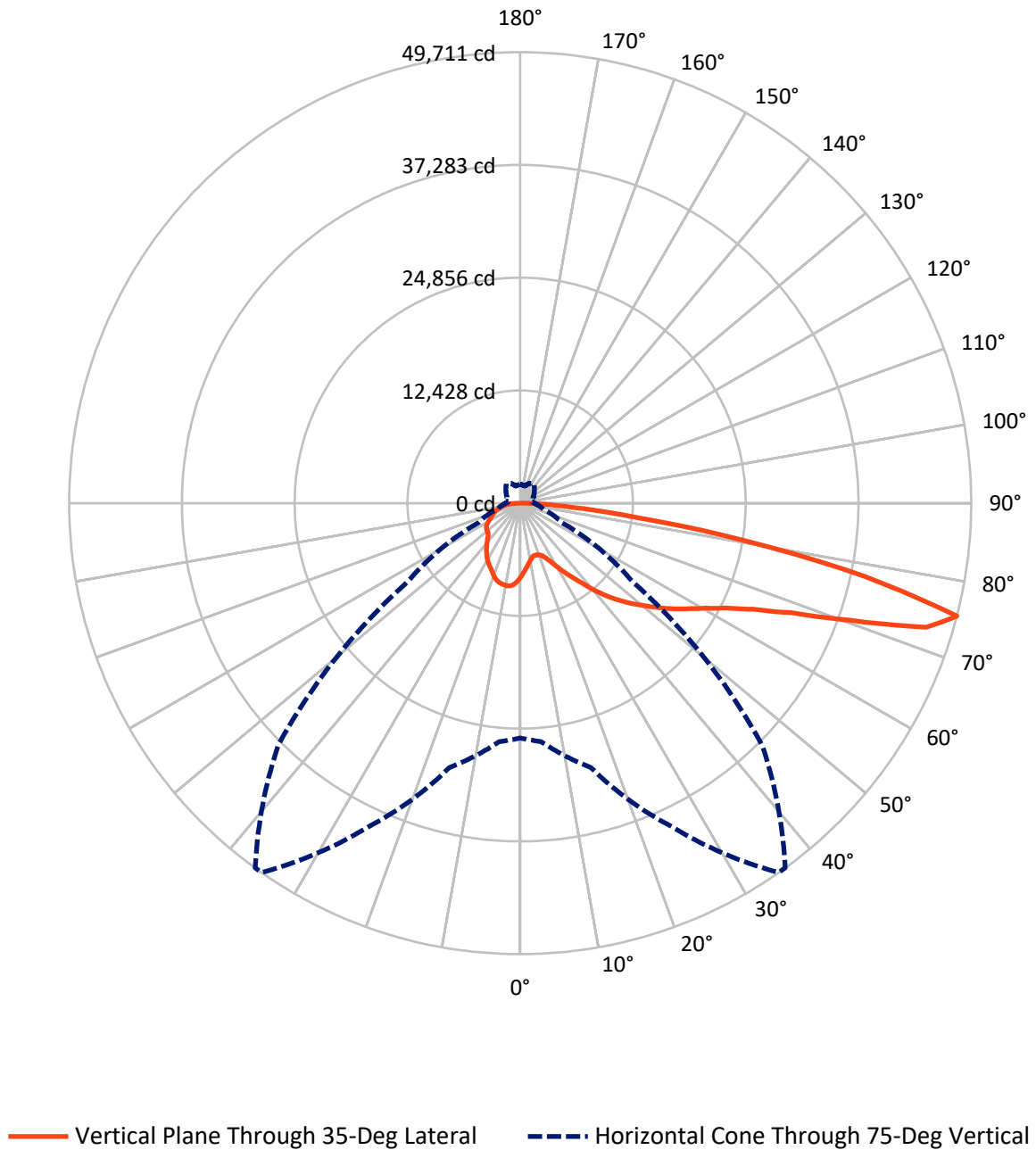
Based on 25 foot mounting height. Maximum calculated value = 14.4 fc

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	14514.3	0.0	14514.3
	% Fixture	23.8	0.0	23.8
Street Side	Lumens	46476.7	0.0	46476.7
	% Fixture	76.2	0.0	76.2
Total	Lumens	60991.0	0.0	60991.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	769.5	1.3
10°-20°	2219.6	3.6
20°-30°	3727.3	6.1
30°-40°	5792.7	9.5
40°-50°	8597.9	14.1
50°-60°	11869.9	19.5
60°-70°	14401.0	23.6
70°-80°	11901.3	19.5
80°-90°	1711.8	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°	60991.0	100.0
0°-180°	60991.0	100.0

Coefficient of Utilization



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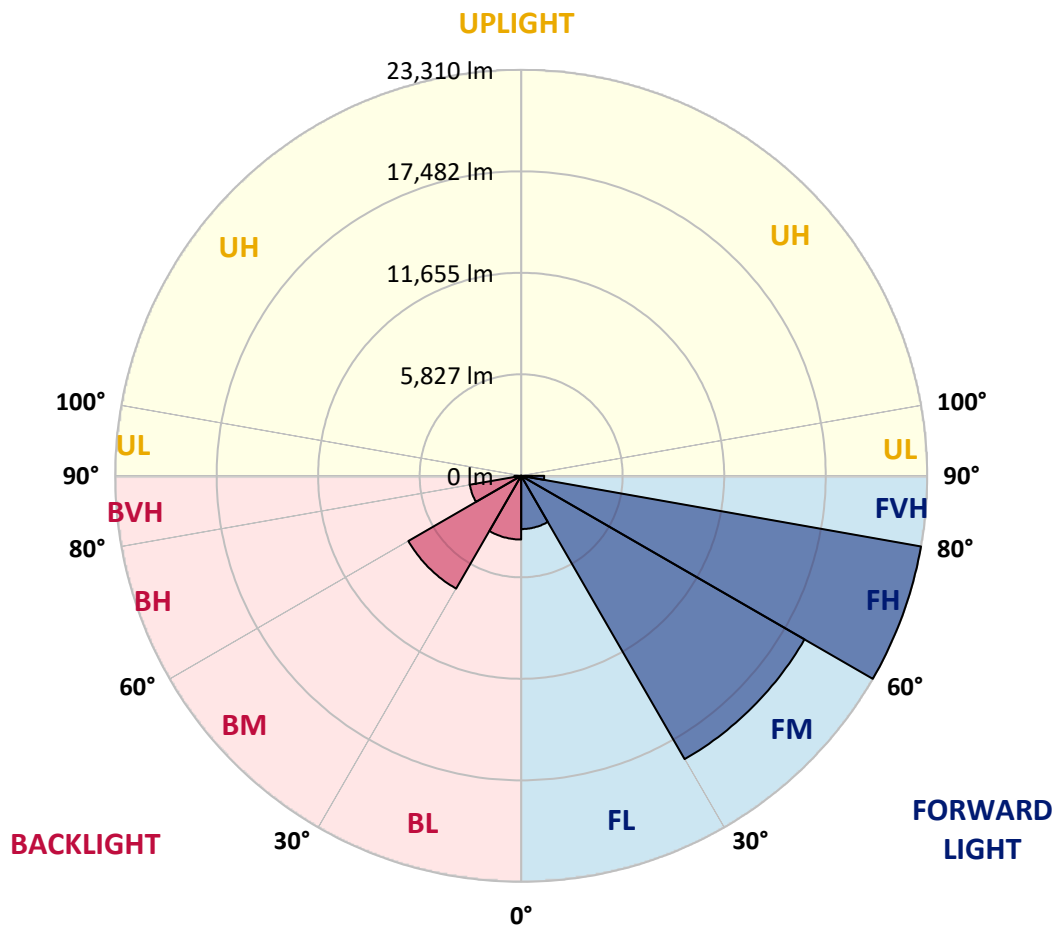
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3058.6	5.0			
FM	(30°-60°)	18781.9	30.8			
FH	(60°-80°)	23309.8	38.2			G5
FVH	(80°-90°)	1326.3	2.2			G5
BL	(0°-30°)	3657.8	6.0	B4/5000		
BM	(30°-60°)	7478.7	12.3	B4/8500		
BH	(60°-80°)	2992.4	4.9	B4/5000		G4/5000
BVH	(80°-90°)	385.4	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°	8127.5	8127.5	8127.5	8127.5	8127.5	8127.5	8127.5	8127.5	8127.5	8127.5	8127.5
2.5°	7494.4	7540.6	7560.4	7550.5	7599.9	7593.3	7662.6	7748.3	7867.0	7982.4	8150.5
5°	6917.4	6966.9	7009.7	7049.3	7144.9	7174.6	7283.4	7448.3	7665.9	7886.8	8163.7
7.5°	6380.0	6422.8	6488.8	6561.3	6722.9	6752.6	6933.9	7191.1	7494.4	7817.5	8200.0
10°	5941.5	5984.3	6053.6	6136.0	6337.1	6373.4	6604.2	6947.1	7342.7	7751.6	8239.6
12.5°	5753.5	5766.7	5806.3	5888.7	6063.5	6086.5	6340.4	6732.8	7194.4	7702.1	8298.9
15°	5743.6	5770.0	5773.3	5816.2	5961.2	5971.1	6205.2	6594.3	7102.1	7692.2	8387.9
17.5°	5842.5	5862.3	5832.7	5859.0	5981.0	5997.5	6182.1	6528.3	7072.4	7735.1	8539.6
20°	6106.3	6122.8	6033.8	5997.5	6086.5	6099.7	6281.1	6571.2	7102.1	7824.1	8747.3
22.5°	6666.8	6676.7	6459.1	6310.7	6317.3	6323.9	6482.2	6746.0	7217.5	7985.7	9011.1
25°	7540.6	7534.0	7187.8	6900.9	6736.1	6699.8	6805.3	7029.5	7412.0	8200.0	9350.7
27.5°	8562.7	8513.2	8167.0	7738.4	7379.0	7326.3	7303.2	7398.8	7688.9	8483.6	9766.1
30°	9716.7	9670.5	9297.9	8737.4	8239.6	8153.8	7936.2	7886.8	8101.1	8869.3	10343.1
32.5°	10982.8	10953.1	10508.0	9828.8	9162.8	9063.9	8697.9	8566.0	8734.1	9452.9	11147.6
35°	12044.5	12018.1	11648.8	10949.8	10135.4	10013.4	9640.9	9492.5	9578.2	10201.4	12199.4
37.5°	13003.9	12990.8	12674.2	12123.6	11282.8	11134.5	10715.7	10666.3	10649.8	11187.2	13475.4
40°	13894.2	13861.2	13531.5	13241.3	12618.2	12483.0	12113.7	12070.8	11945.6	12400.6	14919.6
42.5°	14880.0	14794.3	14316.2	14181.0	14012.9	13900.8	13679.9	13686.5	13409.5	13768.9	16449.5
45°	15684.5	15635.1	15143.8	15064.7	15246.0	15199.8	15391.1	15440.5	14903.1	15203.1	18038.7
47.5°	16548.4	16502.2	16086.8	16030.7	16522.0	16535.2	17211.1	17227.6	16360.4	16693.4	19631.2
50°	17613.4	17547.4	17135.3	17204.5	17755.1	17804.6	19041.0	18928.9	17702.4	18206.8	21210.5
52.5°	18315.6	18355.2	18266.2	18378.3	19130.0	19176.2	20841.3	20554.4	19031.1	19700.4	22760.2
55°	18833.3	18912.4	19189.4	19446.6	20580.8	20626.9	22539.3	22100.8	20132.4	21085.2	24217.5
57.5°	19499.3	19387.2	19904.9	20406.0	21959.0	22081.0	24191.2	23591.1	21108.3	22278.8	25216.6
60°	20455.5	20376.4	20778.6	21520.5	23502.1	23696.6	25938.6	24933.0	21823.8	23225.1	25411.1
62.5°	22394.2	22196.4	22259.0	22915.2	25447.4	25704.5	27910.3	26103.5	22179.9	23594.4	24369.2
65°	25292.4	24952.8	24636.3	25091.3	28187.3	28441.2	30135.9	27023.4	22048.0	22878.9	21602.9
67.5°	28942.3	28606.0	28217.0	28645.6	32223.0	32424.1	32882.4	27541.1	21009.4	20122.5	16713.2
70°	31952.6	31827.3	32292.2	34056.2	38668.9	38675.5	36403.8	27112.4	18164.0	14266.7	9670.5
72.5°	31553.7	31477.8	33927.6	39381.1	46793.1	46618.3	39737.2	23868.0	12235.7	6436.0	3623.6
75°	25885.9	26377.2	30172.2	39285.5	49711.1	49688.0	37696.3	15173.5	5061.1	2667.4	1872.8
77.5°	13881.0	14659.1	19588.3	29005.0	38807.4	39391.0	26502.5	5308.4	2172.8	1707.9	1295.8
80°	4527.0	5206.2	7807.6	14767.9	25216.6	25107.8	11358.7	2083.8	1487.0	1210.1	896.8
82.5°	1922.2	2001.4	3488.4	6973.5	12941.3	12740.2	3617.0	1196.9	1045.2	827.6	553.9
85°	751.7	840.8	1539.8	3224.6	5605.1	5483.2	1305.7	593.5	669.3	540.7	329.7
87.5°	247.3	300.0	550.6	1104.5	1744.2	1681.5	319.8	204.4	290.1	247.3	118.7
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°	8127.5	8127.5	8127.5	8127.5	8127.5	8127.5	8127.5	8127.5	8127.5	8127.5	8127.5
2.5°	8196.7	8249.5	8312.1	8404.4	8483.6	8549.5	8618.7	8661.6	8678.1	8727.5	8724.2
5°	8256.1	8371.5	8526.4	8678.1	8826.5	8915.5	8994.6	9034.2	9070.4	9096.8	9103.4
7.5°	8355.0	8503.3	8747.3	8945.2	9070.4	9143.0	9195.7	9182.5	9195.7	9202.3	9212.2
10°	8440.7	8648.4	8938.6	9126.5	9222.1	9225.4	9212.2	9166.1	9143.0	9146.3	9152.9
12.5°	8542.9	8773.7	9086.9	9245.2	9271.6	9199.0	9143.0	9063.9	9034.2	9021.0	9014.4
15°	8681.4	8945.2	9248.5	9307.8	9241.9	9149.6	9054.0	8925.4	8859.4	8806.7	8823.2
17.5°	8849.5	9139.7	9373.8	9330.9	9189.1	9037.5	8882.5	8688.0	8552.8	8496.7	8500.0
20°	9083.6	9344.1	9469.4	9281.5	9067.1	8836.3	8572.6	8335.2	8209.9	8153.8	8147.2
22.5°	9367.2	9617.8	9561.7	9195.7	8892.4	8523.1	8193.4	8018.7	7956.0	7916.4	7923.0
25°	9706.8	9921.1	9627.7	9070.4	8605.5	8107.7	7853.8	7797.7	7768.1	7738.4	7738.4
27.5°	10148.6	10264.0	9677.1	8885.8	8157.1	7665.9	7573.5	7583.4	7573.5	7524.1	7534.0
30°	10732.2	10709.1	9723.3	8585.8	7642.8	7266.9	7273.5	7316.4	7323.0	7290.0	7306.5
32.5°	11500.4	11266.3	9746.4	8196.7	7151.5	6917.4	6924.0	6970.2	7003.1	6947.1	6973.5
35°	12430.2	11915.9	9710.1	7708.7	6772.3	6584.4	6534.9	6548.1	6558.0	6505.3	6541.5
37.5°	13515.0	12644.6	9548.5	7168.0	6459.1	6258.0	6152.5	6063.5	6010.7	5961.2	5994.2
40°	14705.3	13439.2	9251.8	6640.5	6109.6	5911.8	5753.5	5585.4	5407.3	5341.4	5371.0
42.5°	15951.6	14256.9	8892.4	6136.0	5707.4	5545.8	5377.6	5133.7	4866.6	4731.4	4747.9
45°	17244.1	15094.3	8539.6	5638.1	5295.2	5226.0	5031.4	4738.0	4447.8	4276.4	4263.2
47.5°	18510.2	15885.6	8022.0	5137.0	4909.4	4985.3	4833.6	4563.2	4240.1	3969.8	3940.1
50°	19720.2	16627.5	7174.6	4629.2	4596.2	4912.7	4767.7	4378.6	4009.3	3663.1	3633.5
52.5°	20920.4	17227.6	6089.8	4167.6	4428.1	4893.0	4681.9	4253.3	3801.6	3438.9	3399.4
55°	21939.2	17537.5	5044.6	3771.9	4184.1	4724.8	4579.7	4104.9	3508.2	3122.4	3089.4
57.5°	22519.5	17286.9	4174.2	3382.9	3847.8	4447.8	4405.0	3788.4	3158.7	2861.9	2822.4
60°	22268.9	16271.4	3462.0	3043.3	3527.9	4147.8	4101.6	3475.2	2891.6	2611.3	2571.8
62.5°	20887.4	14336.0	2898.2	2746.5	3237.8	3841.2	3798.3	3234.5	2687.2	2416.8	2373.9
65°	18104.6	11662.0	2459.7	2499.2	2944.4	3471.9	3534.5	3033.4	2525.6	2261.8	2219.0
67.5°	13808.4	8447.3	2116.8	2284.9	2657.5	3109.2	3290.6	2888.3	2390.4	2139.8	2100.3
70°	7870.3	4797.3	1826.6	2077.2	2403.6	2772.9	3102.6	2772.9	2245.4	2037.6	2011.3
72.5°	2983.9	2202.5	1579.3	1869.5	2159.6	2489.3	2894.9	2591.6	2077.2	1922.2	1895.9
75°	1592.5	1341.9	1328.7	1625.5	1879.4	2212.4	2634.4	2413.5	1951.9	2031.0	2097.0
77.5°	1084.8	949.6	1111.1	1391.4	1572.7	1905.8	2357.5	2143.1	1691.4	1684.8	1553.0
80°	751.7	672.6	903.4	1121.0	1216.6	1602.4	2057.4	1839.8	1378.2	1285.9	1229.8
82.5°	451.7	438.5	675.9	837.5	860.6	1236.4	1704.6	1543.1	1127.6	982.5	989.1
85°	247.3	260.5	431.9	491.3	501.2	863.9	1335.3	1193.6	867.1	728.7	735.3
87.5°	69.2	89.0	158.3	194.5	240.7	448.4	794.6	708.9	435.2	303.3	303.3
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)