

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: P455579

Luminaire Tested: **GALN-SA6D-730-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455579
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 42752 lumens
Efficiency: N/A
Efficacy: 116.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G5

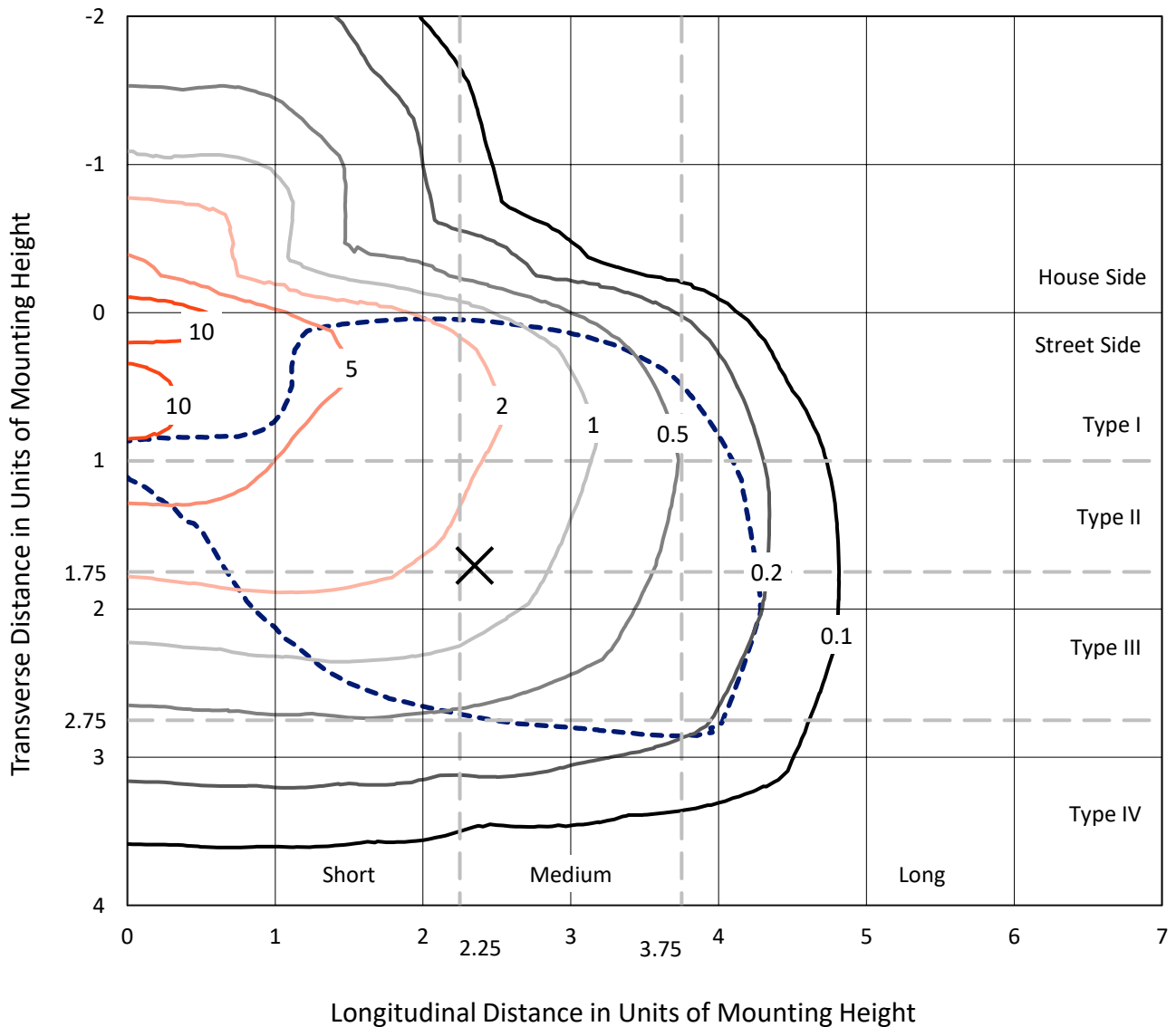
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

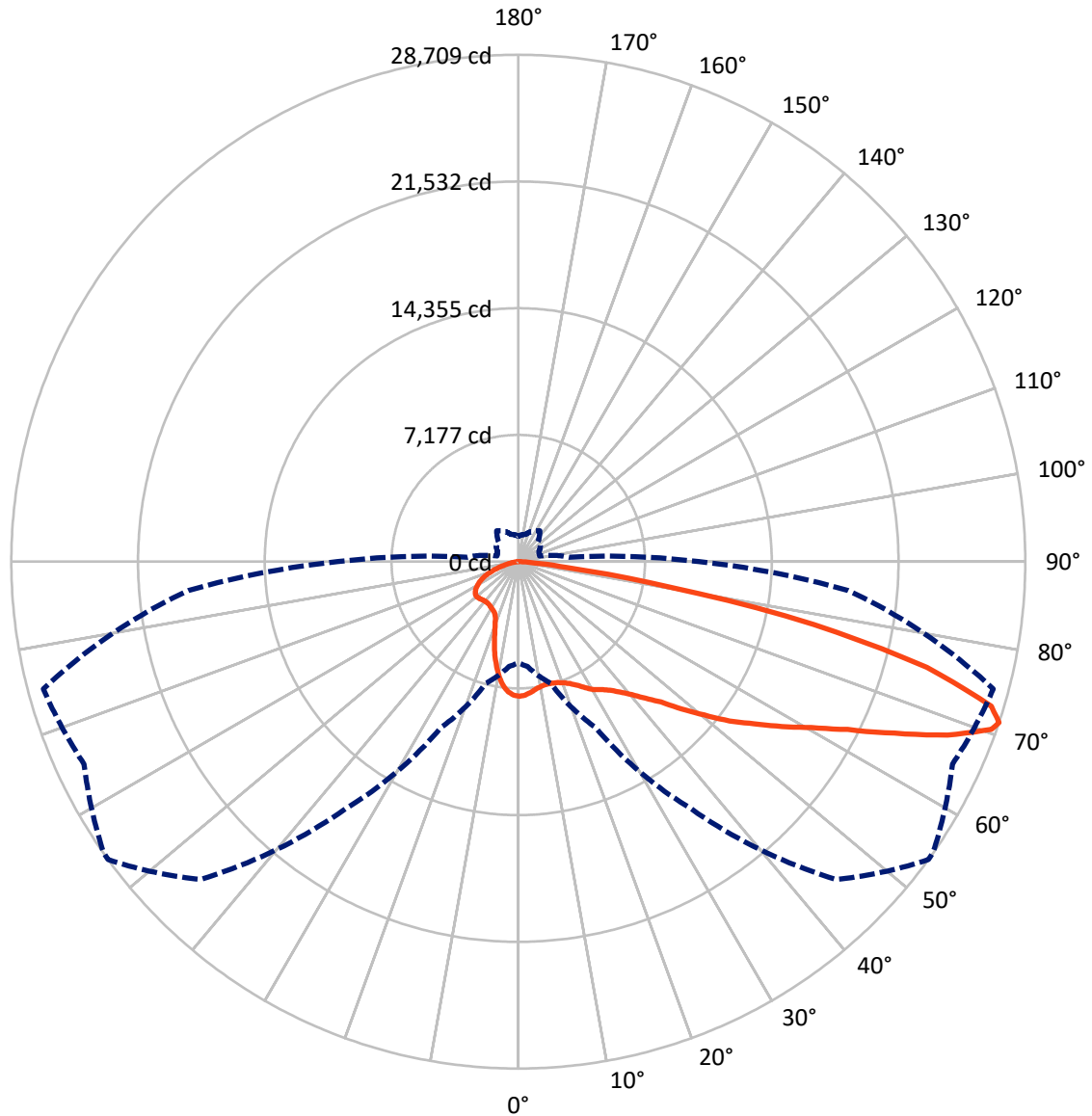
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.3 fc
 Type IV - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7718.6	0.0	7718.6
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	35033.4	0.0	35033.4
	% Fixture	81.9	0.0	81.9
Total	Lumens	42752.0	0.0	42752.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	679.7	1.6
10°-20°	1794.8	4.2
20°-30°	2988.5	7.0
30°-40°	4419.0	10.3
40°-50°	6224.3	14.6
50°-60°	8334.6	19.5
60°-70°	10505.1	24.6
70°-80°	7175.0	16.8
80°-90°	631.0	1.5
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°	42752.0	100.0
0°-180°	42752.0	100.0

Coefficient of Utilization



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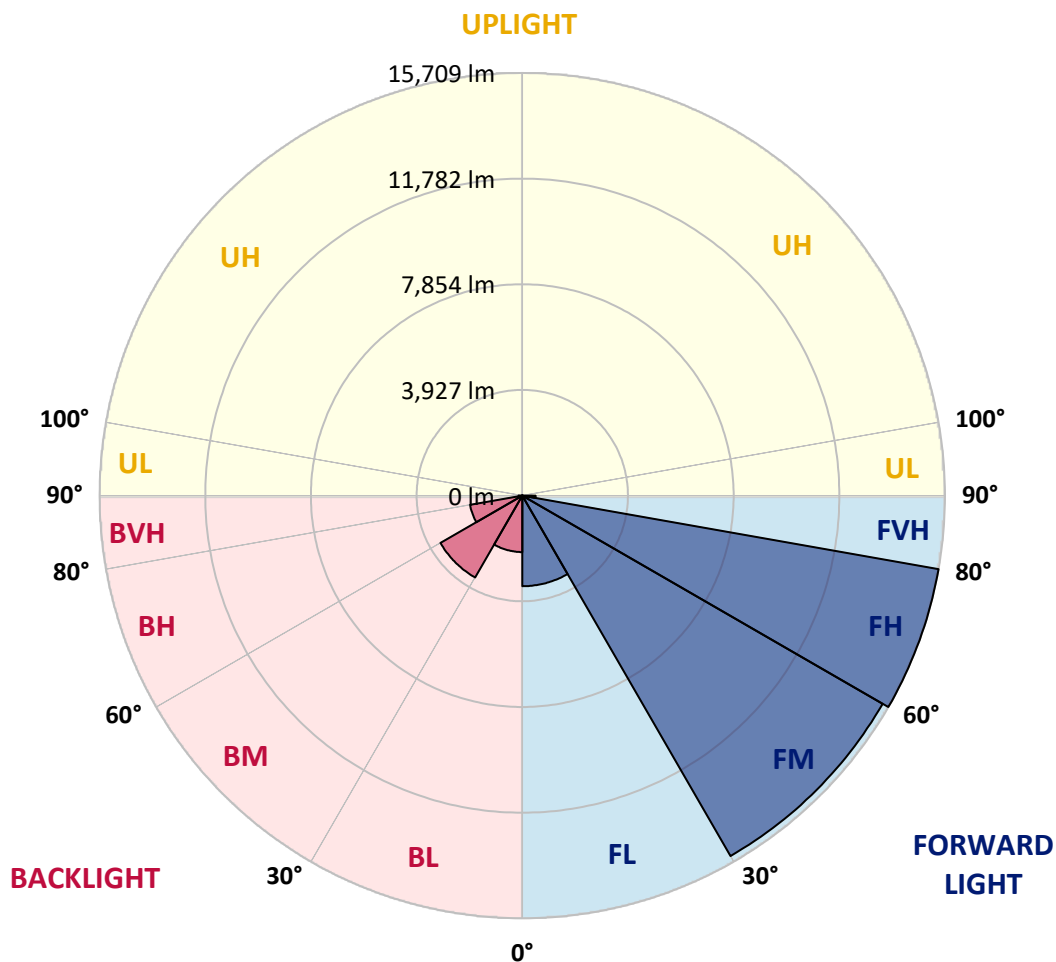
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3365.3	7.9			
FM	(30°-60°)	15466.1	36.2			
FH	(60°-80°)	15708.8	36.7			G5
FVH	(80°-90°)	493.2	1.2			G3/500
BL	(0°-30°)	2097.8	4.9	B3/2500		
BM	(30°-60°)	3511.7	8.2	B3/5000		
BH	(60°-80°)	1971.3	4.6	B3/2500		G3/2500
BVH	(80°-90°)	137.8	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	7627.6	7627.6	7627.6	7627.6	7627.6	7627.6	7627.6	7627.6	7627.6	7627.6	7627.6
2.5°	7368.9	7403.6	7412.8	7435.9	7484.4	7523.7	7562.9	7558.3	7613.7	7636.8	7657.6
5°	7041.0	7050.3	7084.9	7131.1	7216.5	7325.1	7431.3	7433.6	7569.9	7678.4	7731.5
7.5°	6800.9	6830.9	6854.0	6902.5	6992.5	7110.3	7278.9	7292.7	7535.2	7750.0	7863.1
10°	6643.8	6678.5	6703.9	6763.9	6854.0	6985.6	7168.0	7193.4	7509.8	7863.1	8061.7
12.5°	6500.7	6535.3	6558.4	6636.9	6754.7	6916.3	7121.9	7151.9	7519.1	7994.8	8278.8
15°	6588.4	6616.1	6606.9	6630.0	6708.5	6893.2	7140.3	7170.4	7553.7	8121.8	8493.6
17.5°	6978.7	7001.8	6925.6	6837.8	6800.9	6937.1	7198.1	7230.4	7623.0	8253.4	8713.0
20°	7553.7	7616.0	7449.8	7253.5	7075.7	7094.1	7318.1	7352.8	7720.0	8385.0	8937.0
22.5°	8301.9	8348.1	8144.9	7821.6	7493.7	7325.1	7498.3	7519.1	7865.4	8555.9	9181.7
25°	9181.7	9209.5	8927.7	8512.0	8038.6	7720.0	7745.4	7782.3	8105.6	8749.9	9398.8
27.5°	10036.2	10123.9	9798.3	9290.3	8666.8	8135.6	8084.8	8107.9	8366.6	8858.4	9548.9
30°	11050.0	11043.0	10698.9	10110.1	9311.1	8588.3	8405.8	8401.2	8507.4	8911.6	9657.5
32.5°	11858.2	11952.9	11615.7	10973.8	10047.7	9057.0	8627.5	8618.3	8616.0	9003.9	9819.1
35°	12777.3	12791.2	12481.7	11835.1	10844.4	9645.9	8937.0	8890.8	8837.7	9202.5	10038.5
37.5°	13599.4	13664.1	13380.0	12654.9	11627.3	10257.9	9361.9	9331.8	9170.2	9546.6	10389.5
40°	14241.4	14289.9	14119.0	13428.5	12398.6	10918.3	9902.2	9846.8	9650.5	10110.1	10858.3
42.5°	14451.5	14550.8	14617.8	14278.3	13285.4	11701.2	10567.3	10498.0	10347.9	10964.5	11398.7
45°	14467.7	14624.7	14978.1	14994.2	14176.7	12638.8	11343.2	11294.7	11283.2	12059.1	12158.4
47.5°	14345.3	14504.7	15098.1	15419.1	14971.1	13585.6	12463.2	12387.0	12394.0	13412.4	13010.5
50°	14049.7	14239.1	14959.6	15691.6	15592.3	14569.3	13645.6	13620.2	13763.4	14957.3	13895.0
52.5°	13493.2	13721.8	14816.4	15862.5	16054.2	15416.8	14989.6	14918.0	15280.6	16633.8	14862.6
55°	11952.9	12297.0	14292.2	15957.2	16493.0	16227.4	16199.7	16329.0	16809.3	18462.8	15927.2
57.5°	11149.3	11407.9	13153.7	15973.4	17047.2	17169.6	17613.0	17645.3	18485.9	20404.9	17130.3
60°	10710.5	10939.1	12530.2	15867.1	17820.8	18335.8	19058.6	19174.0	20123.2	22508.7	18377.3
62.5°	10327.2	10523.4	12156.1	15500.0	18693.7	20065.4	20931.4	20986.8	21982.1	24831.8	19608.2
65°	9424.2	9648.2	11403.3	15132.8	19446.5	22226.9	23416.2	23351.6	23961.2	26836.3	20379.5
67.5°	8207.2	8491.3	9996.9	13865.0	19818.3	24589.3	26215.1	26134.3	25914.9	28150.3	20601.2
70°	6653.1	6805.5	8198.0	11673.5	18333.5	25829.4	28425.1	28339.6	27124.9	28323.5	19552.8
71°	5724.7	5962.6	7138.0	10368.7	17098.0	25450.7	28709.1	28686.0	27127.2	27845.4	18763.0
72.5°	4468.5	4614.0	5653.1	8034.0	14532.4	23298.4	28007.1	28094.8	26538.4	26517.6	17134.9
75°	2826.6	2891.2	3547.1	4729.4	7974.0	16499.9	23908.1	24146.0	23564.0	21705.0	12742.7
77.5°	1641.9	1725.0	2124.5	2787.3	3445.5	8955.4	17107.2	17365.9	16372.9	11950.6	5216.7
80°	956.0	1048.4	1399.4	1618.8	1581.9	3323.1	8710.6	9151.7	7089.5	3018.2	1464.1
82.5°	531.1	593.5	983.8	986.1	842.9	1085.4	2741.1	2868.1	2022.9	1217.0	598.1
85°	385.7	436.5	635.1	575.0	404.1	466.5	953.7	999.9	817.5	512.7	194.0
87.5°	136.2	194.0	348.7	277.1	110.8	97.0	274.8	224.0	207.8	143.2	43.9
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°	7627.6	7627.6	7627.6	7627.6	7627.6	7627.6	7627.6	7627.6	7627.6	7627.6	7627.6
2.5°	7669.2	7673.8	7650.7	7609.1	7567.5	7514.4	7454.4	7408.2	7387.4	7385.1	7382.8
5°	7752.3	7763.8	7676.1	7546.8	7403.6	7228.1	7078.0	6907.1	6863.2	6793.9	6814.7
7.5°	7886.2	7879.3	7706.1	7431.3	7096.5	6724.7	6410.6	6228.2	6038.8	5985.7	5988.0
10°	8077.9	8034.0	7706.1	7195.8	6636.9	6085.0	5646.2	5369.1	5219.0	5094.3	5048.1
12.5°	8281.1	8170.3	7632.2	6865.5	6045.7	5369.1	4898.0	4523.9	4426.9	4325.3	4327.6
15°	8475.1	8290.4	7486.7	6401.4	5408.4	4604.7	4147.5	3923.5	3893.5	3905.0	3902.7
17.5°	8650.6	8375.8	7265.0	5884.1	4664.8	3948.9	3706.4	3722.6	3803.4	3861.1	3868.1
20°	8828.4	8426.6	6934.8	5191.3	3962.7	3551.7	3560.9	3687.9	3810.3	3888.8	3900.4
22.5°	8997.0	8449.7	6546.8	4521.6	3454.7	3383.1	3519.4	3655.6	3775.7	3851.9	3863.4
25°	9107.8	8396.6	5997.2	3821.9	3205.3	3323.1	3466.2	3581.7	3683.3	3761.8	3780.3
27.5°	9137.9	8225.7	5316.0	3256.1	3089.8	3265.3	3397.0	3482.4	3560.9	3634.8	3648.7
30°	9121.7	7974.0	4567.8	2923.6	3022.9	3198.4	3300.0	3362.3	3457.0	3514.7	3526.3
32.5°	9096.3	7680.7	3787.2	2745.7	2967.4	3136.0	3196.1	3251.5	3249.2	3226.1	3242.2
35°	9105.5	7329.7	3154.5	2639.5	2918.9	3089.8	3140.6	3071.4	2872.8	2863.5	2854.3
37.5°	9154.0	6983.3	2694.9	2565.6	2893.5	3082.9	3110.6	2791.9	2616.4	2535.6	2514.8
40°	9278.7	6579.2	2392.4	2510.2	2891.2	3136.0	2974.4	2651.1	2313.9	2156.9	2145.3
42.5°	9445.0	6182.0	2207.7	2475.6	2918.9	3216.8	2918.9	2452.5	2085.3	1992.9	1979.1
45°	9692.1	5727.0	2106.1	2459.4	2960.5	3246.9	2900.5	2307.0	1992.9	1919.0	1919.0
47.5°	9971.5	5292.9	2050.7	2447.8	3013.6	3226.1	2736.5	2260.8	1949.0	1958.3	2002.2
50°	10248.6	4916.5	2009.1	2422.4	3059.8	3214.5	2669.5	2258.5	1960.6	2078.4	2156.9
52.5°	10569.6	4650.9	1958.3	2380.9	3059.8	3140.6	2648.8	2304.7	1992.9	2027.6	2062.2
55°	10957.6	4567.8	1893.6	2290.8	3004.4	2955.9	2637.2	2371.6	2016.0	1935.2	1949.0
57.5°	11470.3	4701.7	1831.3	2177.7	2877.4	2764.2	2632.6	2390.1	1962.9	1895.9	1882.1
60°	12066.0	4967.3	1812.8	2062.2	2704.2	2600.3	2604.9	2337.0	1889.0	1819.7	1831.3
62.5°	12484.0	5126.6	1801.2	1974.4	2514.8	2420.1	2537.9	2272.3	1856.7	1796.6	1808.2
65°	12484.0	4932.6	1695.0	1840.5	2270.0	2203.1	2457.1	2191.5	1815.1	1745.8	1734.3
67.5°	12010.6	4366.9	1533.4	1639.6	1999.8	1956.0	2343.9	2094.5	1752.8	1699.6	1671.9
70°	10777.5	3311.5	1330.2	1404.0	1658.1	1697.3	2198.4	1962.9	1648.8	1584.2	1542.6
71°	10234.8	2884.3	1244.7	1284.0	1526.4	1584.2	2129.2	1907.5	1602.6	1510.3	1436.4
72.5°	9188.7	2429.4	1115.4	1131.6	1304.7	1408.7	1983.7	1801.2	1514.9	1383.3	1300.1
75°	6981.0	1773.5	898.3	889.1	965.3	1117.7	1678.9	1605.0	1327.8	1150.0	1101.5
77.5°	3015.9	965.3	672.0	678.9	655.8	847.5	1320.9	1378.6	1138.5	935.3	891.4
80°	914.5	556.5	459.5	468.8	438.8	568.1	930.6	1080.7	914.5	727.4	667.4
82.5°	468.8	332.5	314.1	309.4	279.4	321.0	563.5	739.0	653.5	454.9	401.8
85°	203.2	177.8	154.7	150.1	131.6	115.5	200.9	369.5	346.4	254.0	242.5
87.5°	50.8	46.2	30.0	27.7	16.2	2.3	0.0	0.0	0.0	0.0	0.0
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)