

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: P457201

Luminaire Tested: **GALN-SA8C-730-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-12)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8C-730-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51271 lumens
Efficiency: N/A
Efficacy: 119.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G5

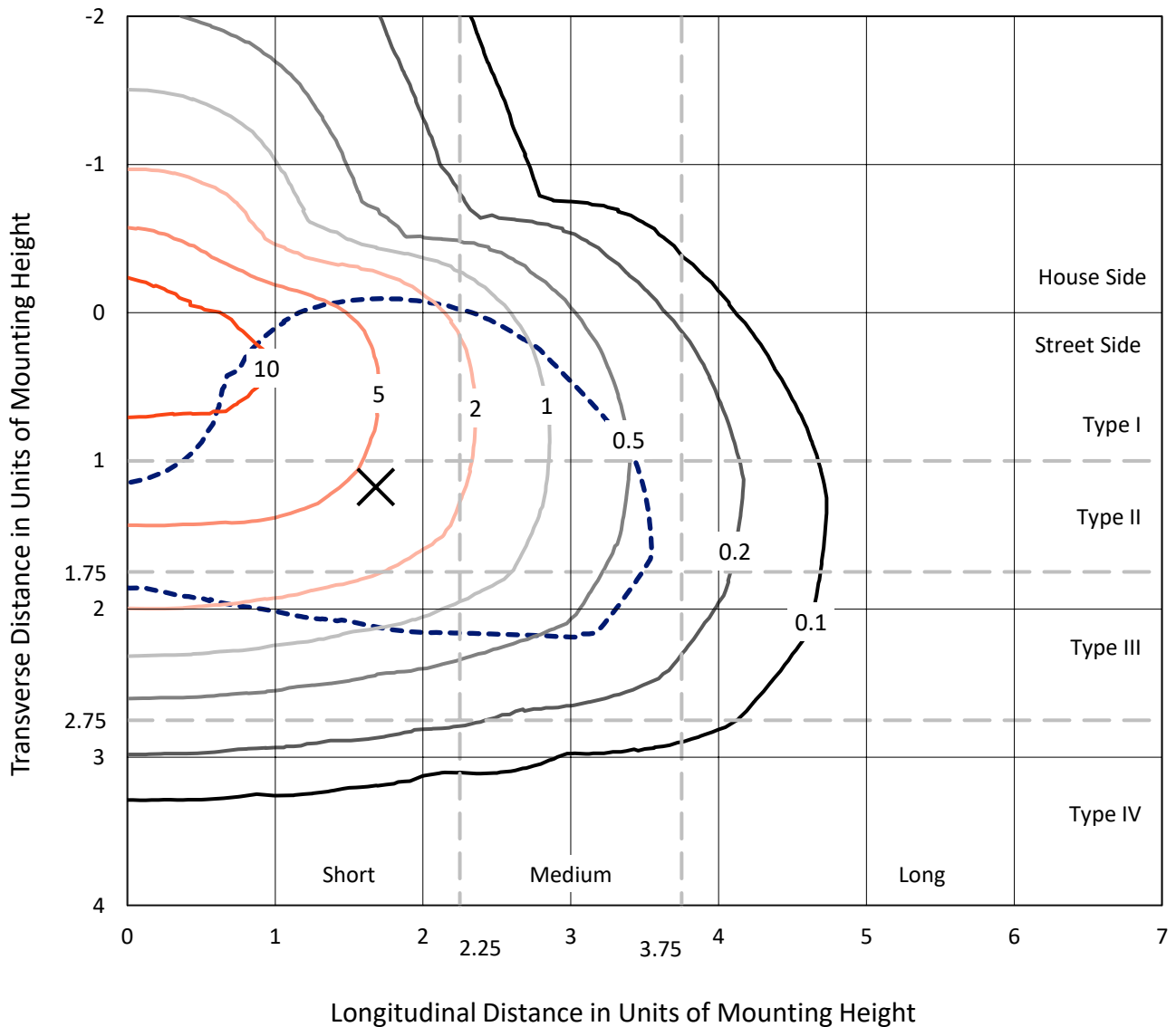
Input Watts (W): 429
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

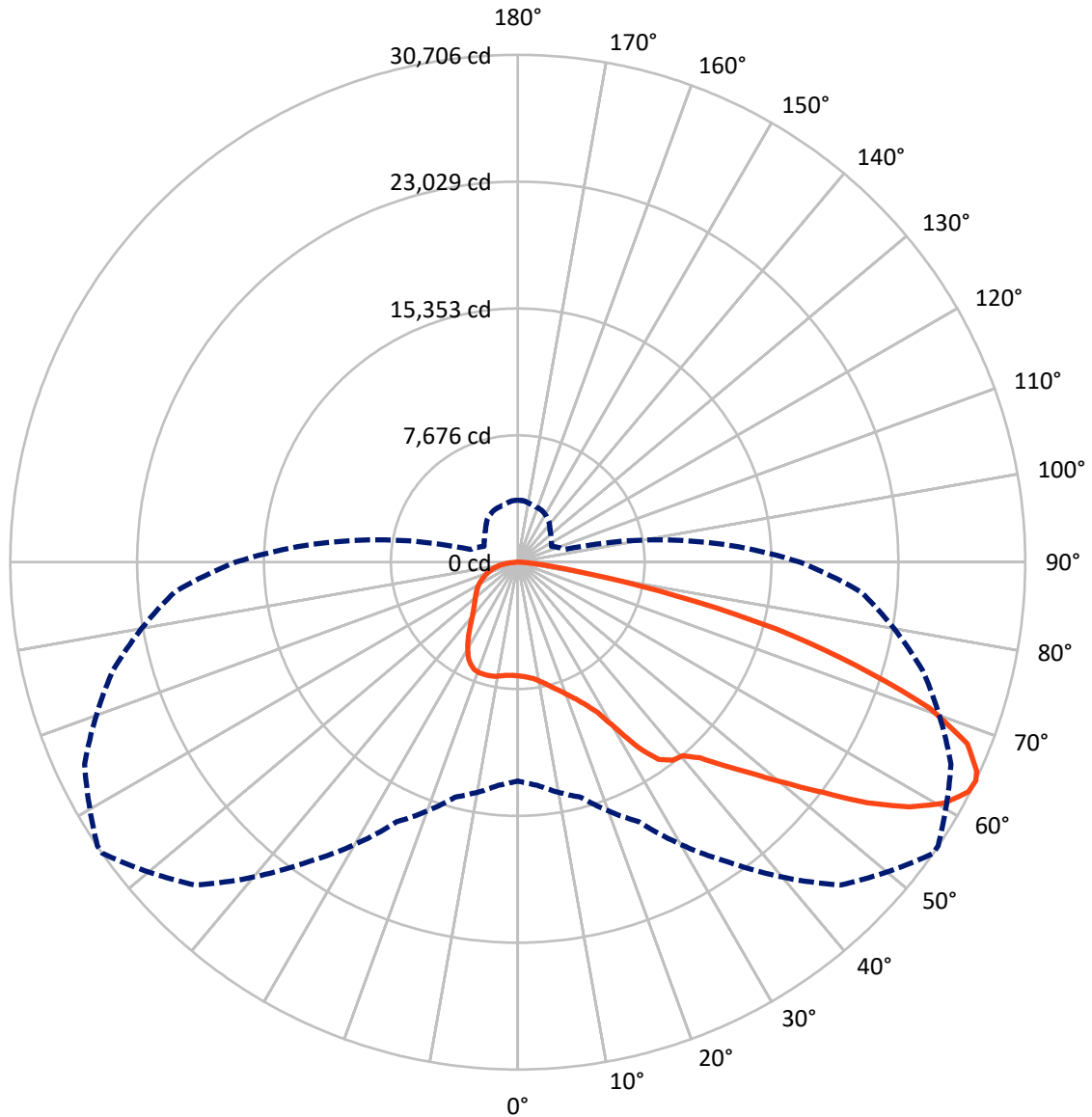
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12454.7	0.0	12454.7
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	38816.3	0.0	38816.3
	% Fixture	75.7	0.0	75.7
Total	Lumens	51271.0	0.0	51271.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	669.1	1.3
10°-20°	2111.4	4.1
20°-30°	3758.8	7.3
30°-40°	5783.3	11.3
40°-50°	8198.3	16.0
50°-60°	11866.8	23.1
60°-70°	12280.9	24.0
70°-80°	5751.1	11.2
80°-90°	851.4	1.7
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°	51271.0	100.0
0°-180°	51271.0	100.0

Coefficient of Utilization



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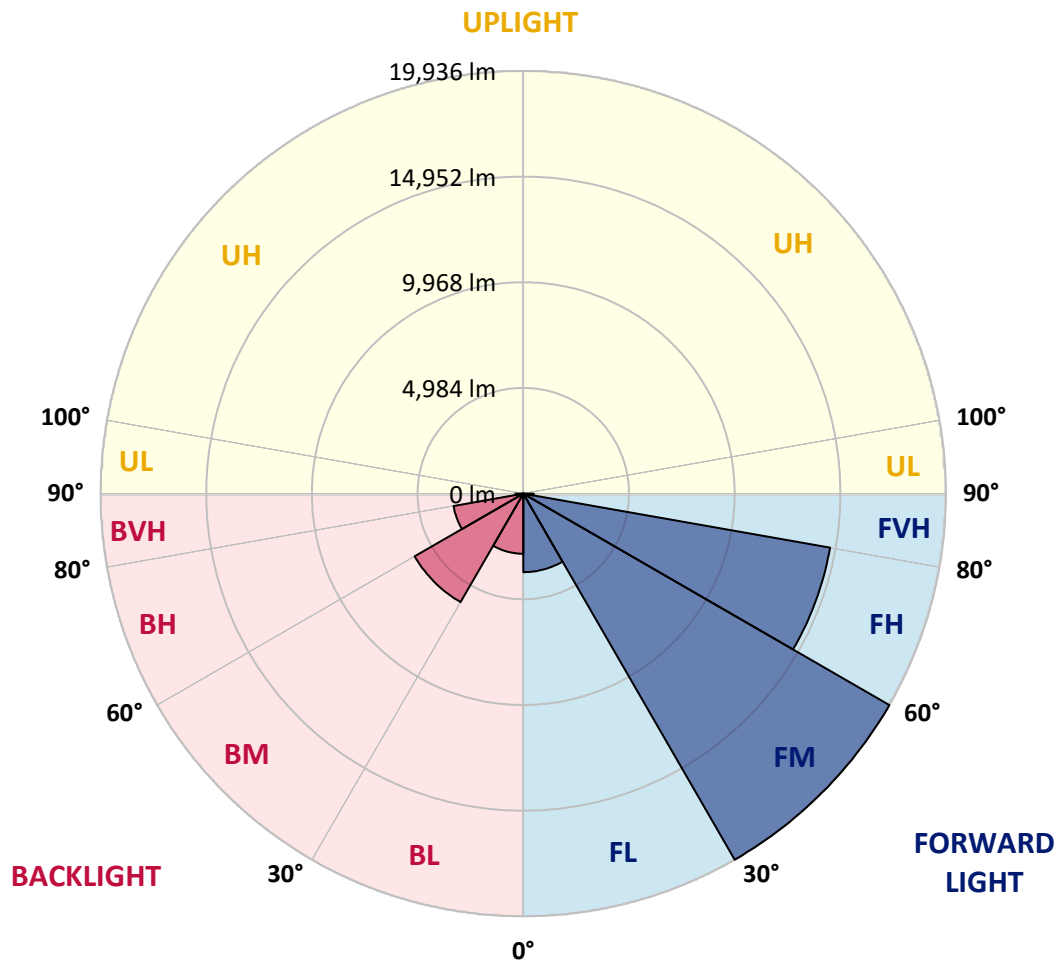
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3702.6	7.2			
FM (30°-60°)	19935.6	38.9			
FH (60°-80°)	14690.6	28.7			G5
FVH (80°-90°)	487.5	1.0			G3/500
BL (0°-30°)	2836.7	5.5	B4/5000		
BM (30°-60°)	5912.8	11.5	B4/8500		
BH (60°-80°)	3341.4	6.5	B4/5000		G4/5000
BVH (80°-90°)	363.9	0.7			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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	6879.0	6879.0	6879.0	6879.0	6879.0	6879.0	6879.0	6879.0	6879.0	6879.0	6879.0
2.5°	6956.2	6953.3	6961.9	6953.3	6959.0	6939.0	6930.5	6936.2	6927.6	6913.3	6887.6
5°	7041.9	7039.1	7041.9	7030.5	7036.2	7024.8	7004.8	7010.5	6996.2	6964.8	6927.6
7.5°	7187.7	7176.2	7176.2	7173.4	7162.0	7144.8	7130.5	7124.8	7110.5	7070.5	7013.3
10°	7376.3	7376.3	7379.2	7356.3	7370.6	7339.1	7324.9	7322.0	7273.4	7222.0	7141.9
12.5°	7624.9	7639.2	7630.7	7619.2	7613.5	7602.1	7553.5	7564.9	7510.6	7422.0	7324.9
15°	7933.6	7956.5	7942.2	7936.5	7922.2	7879.3	7859.3	7850.7	7779.3	7650.7	7522.1
17.5°	8342.3	8313.7	8302.3	8288.0	8228.0	8196.5	8162.2	8156.5	8093.6	7942.2	7742.1
20°	8699.5	8739.5	8716.7	8702.4	8642.4	8582.3	8556.6	8548.0	8493.7	8328.0	8007.9
22.5°	9125.3	9133.9	9142.5	9108.2	9079.6	9033.9	8988.2	8973.9	8953.9	8782.4	8390.9
25°	9579.8	9614.1	9585.5	9551.2	9516.9	9514.0	9556.9	9551.2	9542.6	9376.8	8899.6
27.5°	10320.0	10351.4	10360.0	10322.8	10191.4	10202.8	10300.0	10331.4	10462.9	10188.5	9554.0
30°	10737.2	10768.7	10840.1	10980.1	11188.8	11371.7	11606.0	11677.5	11803.2	11285.9	10331.4
32.5°	10994.4	11005.9	11134.5	11394.5	12020.4	12703.5	13340.8	13366.5	13446.5	12720.6	11043.0
35°	11400.3	11408.8	11511.7	11797.5	12532.0	13669.4	14655.4	14686.9	14621.1	13166.5	11374.5
37.5°	11900.4	11923.3	11989.0	12226.2	13103.6	14478.2	15201.3	15178.4	14595.4	13520.8	11960.4
40°	12629.2	12629.2	12552.0	12872.1	13706.6	14941.2	15392.8	15352.8	15198.4	14546.8	12852.1
42.5°	13272.2	13260.8	13443.7	13660.9	14461.1	15655.7	16195.8	16261.6	16515.9	15835.8	13866.6
45°	14109.6	14161.0	14263.9	14658.3	15744.3	16876.0	17573.4	17636.2	17996.3	17353.3	15052.7
47.5°	14955.5	14972.7	15295.6	15821.5	17333.3	18530.8	19102.4	19205.2	19533.9	19128.1	16330.2
50°	15555.7	15718.6	16235.9	17064.7	18970.9	20548.5	20994.3	21117.2	21697.4	21060.0	17819.1
52.5°	16190.1	16350.2	16981.8	18245.0	20851.4	22611.9	23160.6	23243.5	23846.5	23014.9	19342.4
55°	16733.1	16881.8	17599.1	19291.0	22349.0	24718.2	25712.7	25615.6	25904.2	24521.0	20517.0
57.5°	16821.7	16941.8	17844.9	19959.7	23475.0	26524.4	27950.5	28007.6	27673.3	25647.0	21485.9
60°	16135.8	16381.6	17419.0	19888.3	23980.8	27781.9	29619.5	29659.5	28710.7	26224.3	21871.7
62.5°	14921.2	14895.5	16150.1	18739.4	23272.1	28067.7	30602.6	30559.8	29116.5	25947.1	21497.3
64°	13243.6	13552.3	14724.0	17327.6	22128.9	27627.5	30705.5	30682.7	28922.2	25369.8	20860.0
65°	12220.5	12203.3	13360.8	16173.0	20991.4	26964.5	30522.6	30491.2	28516.4	24852.5	20365.6
67.5°	8822.4	8862.4	10005.6	12480.5	17064.7	24372.4	29330.9	29213.7	26915.9	23137.7	18485.0
70°	5344.3	5367.2	6264.6	8279.4	12249.1	19702.5	26438.6	26444.4	24466.7	20577.0	15732.9
72.5°	2815.1	2875.1	3235.2	4701.3	7439.2	13823.8	21448.7	21957.4	21005.7	17561.9	12429.1
75°	1566.1	1574.7	1829.1	2317.8	3795.3	7736.4	16121.5	16267.3	16630.3	14135.3	9191.1
77.5°	1194.6	1211.8	1291.8	1497.6	2066.3	3586.7	9756.9	10488.6	11720.3	9965.6	5244.3
80°	968.8	986.0	1054.6	1177.5	1374.7	1700.5	4532.7	4927.1	6273.1	4424.1	2046.3
82.5°	754.5	743.1	831.7	911.7	1000.3	1006.0	1860.5	2057.7	2555.0	1903.4	886.0
85°	560.2	560.2	631.6	614.5	645.9	588.7	820.2	906.0	1023.1	808.8	411.5
87.5°	222.9	245.8	414.4	371.5	288.7	231.5	302.9	320.1	354.4	317.2	171.5
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°	6879.0	6879.0	6879.0	6879.0	6879.0	6879.0	6879.0	6879.0	6879.0	6879.0	6879.0
2.5°	6890.5	6899.0	6879.0	6864.7	6859.0	6850.4	6841.9	6844.7	6856.2	6867.6	6864.7
5°	6924.7	6927.6	6893.3	6876.2	6864.7	6853.3	6853.3	6861.9	6884.7	6901.9	6901.9
7.5°	7010.5	7010.5	6961.9	6930.5	6913.3	6893.3	6887.6	6890.5	6907.6	6930.5	6933.3
10°	7144.8	7133.4	7070.5	7021.9	6990.5	6941.9	6899.0	6876.2	6884.7	6899.0	6899.0
12.5°	7307.7	7276.3	7196.3	7130.5	7053.4	6961.9	6873.3	6827.6	6824.7	6839.0	6833.3
15°	7482.0	7447.7	7336.3	7216.3	7081.9	6947.6	6841.9	6776.1	6724.7	6710.4	6741.8
17.5°	7685.0	7613.5	7459.2	7293.4	7093.4	6919.0	6753.3	6618.9	6527.5	6501.8	6510.3
20°	7930.7	7836.4	7627.8	7367.7	7084.8	6816.1	6558.9	6378.9	6230.3	6184.5	6190.3
22.5°	8270.8	8107.9	7802.1	7404.9	7013.3	6621.8	6264.6	6030.2	5850.2	5778.7	5821.6
25°	8656.6	8479.5	7967.9	7396.3	6827.6	6310.3	5915.9	5610.1	5447.2	5341.5	5364.3
27.5°	9188.2	8873.9	8145.1	7319.1	6561.8	5930.2	5472.9	5184.3	5035.7	4981.4	5007.1
30°	9868.4	9385.4	8336.6	7110.5	6141.7	5450.1	5027.1	4838.5	4749.9	4681.3	4704.1
32.5°	10360.0	9745.5	8379.4	6759.0	5687.3	5012.8	4724.1	4584.1	4486.9	4421.2	4435.5
35°	10711.5	10051.3	8359.4	6327.4	5212.9	4652.7	4484.1	4369.8	4212.6	4069.7	4044.0
37.5°	11183.1	10434.3	8213.7	5855.9	4744.2	4409.8	4289.7	4078.3	3852.5	3661.0	3652.4
40°	11906.1	10883.0	7902.2	5301.4	4344.0	4229.7	4084.0	3809.6	3566.7	3412.4	3400.9
42.5°	12652.0	11297.4	7479.2	4718.4	4015.4	4041.1	3863.9	3592.4	3443.8	3343.8	3332.3
45°	13563.7	11746.1	7021.9	4212.6	3772.5	3863.9	3672.4	3515.2	3426.6	3360.9	3343.8
47.5°	14549.7	12206.2	6507.5	3758.2	3566.7	3701.0	3592.4	3521.0	3472.4	3426.6	3406.6
50°	15612.8	12720.6	6024.5	3392.4	3380.9	3532.4	3583.8	3558.1	3529.5	3515.2	3498.1
52.5°	16778.9	13246.5	5618.7	3135.1	3218.0	3412.4	3586.7	3606.7	3606.7	3598.1	3586.7
55°	17567.7	13612.3	5207.1	2926.5	3052.3	3315.2	3581.0	3658.1	3686.7	3675.3	3663.9
57.5°	18150.7	13812.3	4689.9	2746.5	2912.2	3220.9	3549.5	3663.9	3692.4	3706.7	3701.0
60°	18270.7	13626.6	4012.5	2557.8	2760.8	3083.7	3435.2	3578.1	3615.3	3703.9	3712.4
62.5°	17730.6	13055.0	3338.1	2372.1	2575.0	2875.1	3280.9	3481.0	3555.3	3692.4	3706.7
64°	17067.5	12414.8	2963.7	2254.9	2455.0	2757.9	3203.7	3455.2	3552.4	3735.3	3746.7
65°	16581.7	11949.0	2729.3	2180.6	2377.8	2680.7	3160.9	3463.8	3578.1	3801.0	3818.2
67.5°	14792.6	10345.7	2257.8	2006.3	2194.9	2549.3	3169.4	3535.3	3572.4	3826.8	3823.9
70°	12240.5	8236.5	1891.9	1846.2	2017.7	2443.5	3135.1	3420.9	3423.8	3592.4	3552.4
72.5°	9165.4	6087.4	1640.4	1680.5	1820.5	2192.0	2960.8	3266.6	3218.0	3240.9	3200.9
75°	6296.0	4026.8	1411.8	1503.3	1614.7	1937.7	2715.0	2966.5	2889.4	2860.8	2832.2
77.5°	3360.9	2226.3	1174.6	1328.9	1403.2	1674.7	2369.2	2612.1	2532.1	2420.7	2383.5
80°	1360.4	1048.9	946.0	1100.3	1143.2	1348.9	1972.0	2123.4	2063.4	1869.1	1806.2
82.5°	683.0	628.7	743.1	866.0	868.8	963.1	1466.1	1609.0	1474.7	1237.5	1183.2
85°	357.2	368.7	511.6	608.7	537.3	520.1	880.2	974.6	894.5	777.4	700.2
87.5°	128.6	148.6	268.6	265.8	188.6	100.0	194.3	94.3	51.4	31.4	40.0
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)