

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: P458274

Luminaire Tested: **GALN-SA9C-830-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458274
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-SA9C-830-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 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: 50224 lumens
Efficiency: N/A
Efficacy: 104.4 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): 481
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

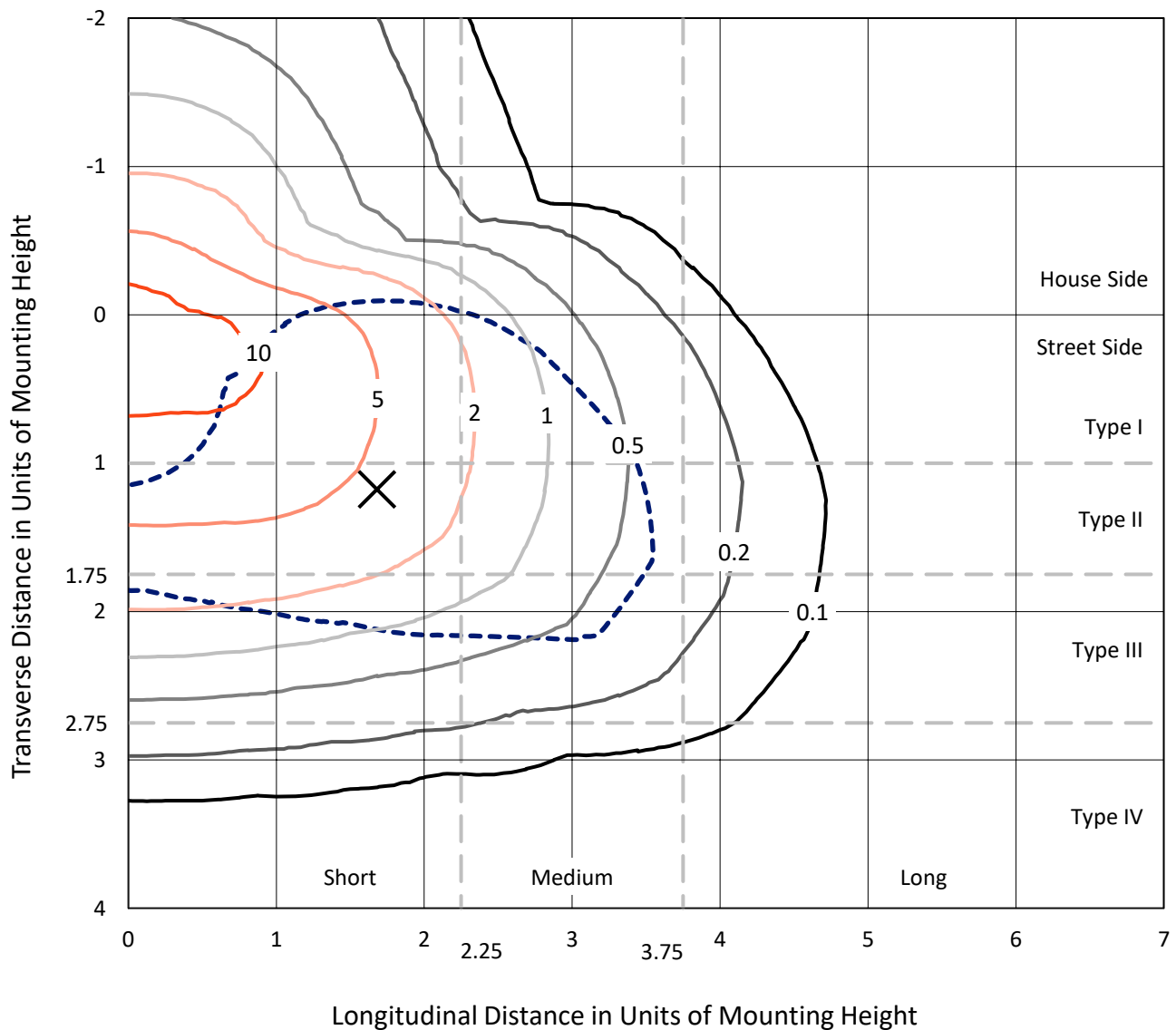


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd



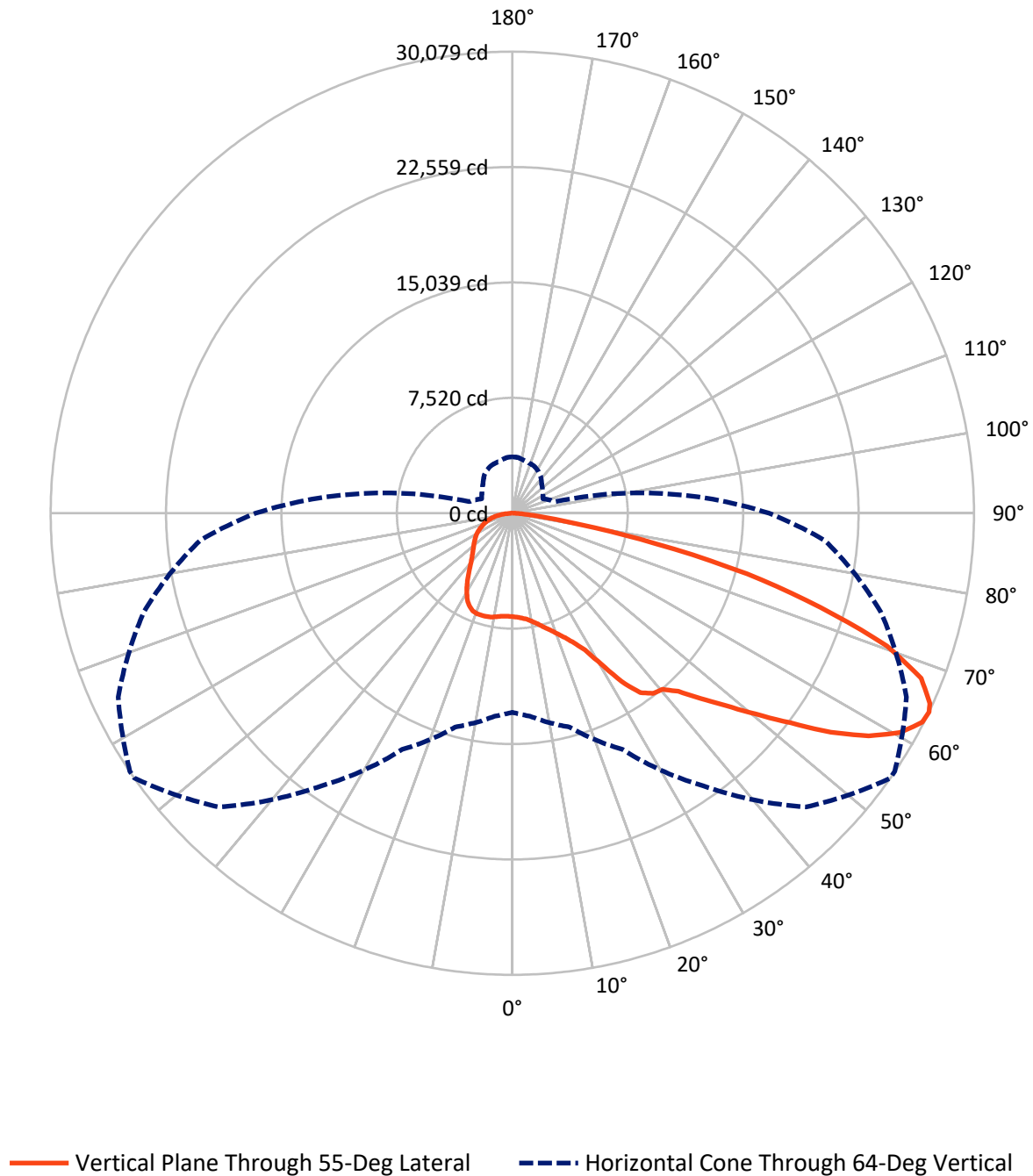
Based on 25 foot mounting height. Maximum calculated value = 12.3 fc

Type III - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12200.4	0.0	12200.4
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	38023.6	0.0	38023.6
	% Fixture	75.7	0.0	75.7
Total	Lumens	50224.0	0.0	50224.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.5	1.3
10°-20°	2068.2	4.1
20°-30°	3682.0	7.3
30°-40°	5665.2	11.3
40°-50°	8030.8	16.0
50°-60°	11624.5	23.1
60°-70°	12030.1	24.0
70°-80°	5633.7	11.2
80°-90°	834.0	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°	50224.0	100.0
0°-180°	50224.0	100.0

Coefficient of Utilization



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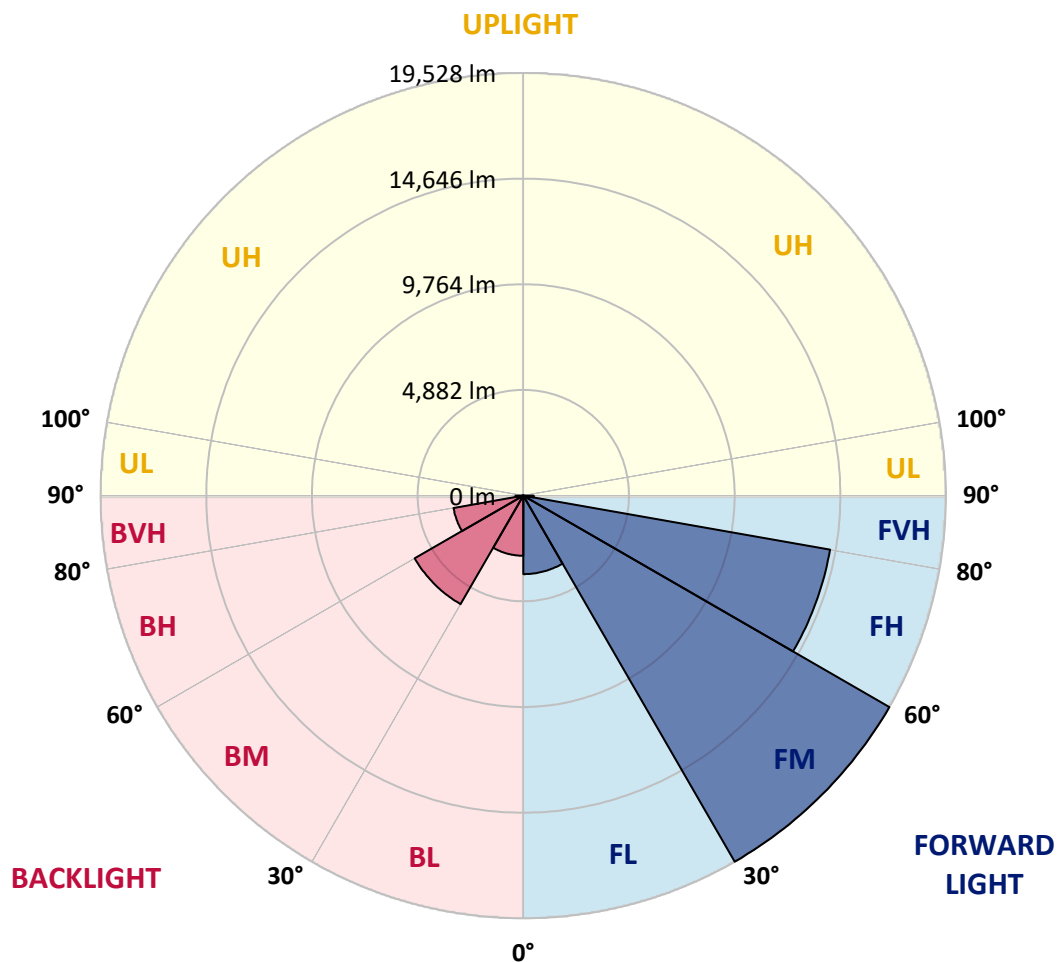
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3627.0	7.2			
FM	(30°-60°)	19528.5	38.9			
FH	(60°-80°)	14390.6	28.7			G5
FVH	(80°-90°)	477.5	1.0			G3/500
BL	(0°-30°)	2778.8	5.5	B4/5000		
BM	(30°-60°)	5792.0	11.5	B4/8500		
BH	(60°-80°)	3273.1	6.5	B4/5000		G4/5000
BVH	(80°-90°)	356.5	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°	6738.5	6738.5	6738.5	6738.5	6738.5	6738.5	6738.5	6738.5	6738.5	6738.5	6738.5
2.5°	6814.1	6811.3	6819.7	6811.3	6816.9	6797.3	6788.9	6794.5	6786.1	6772.1	6746.9
5°	6898.1	6895.3	6898.1	6886.9	6892.5	6881.3	6861.7	6867.3	6853.3	6822.5	6786.1
7.5°	7040.9	7029.7	7029.7	7026.9	7015.7	6998.9	6984.9	6979.3	6965.3	6926.1	6870.1
10°	7225.7	7225.7	7228.5	7206.1	7220.1	7189.3	7175.3	7172.5	7124.9	7074.5	6996.1
12.5°	7469.2	7483.2	7474.8	7463.6	7458.0	7446.8	7399.2	7410.4	7357.2	7270.5	7175.3
15°	7771.6	7794.0	7780.0	7774.4	7760.4	7718.4	7698.8	7690.4	7620.4	7494.4	7368.4
17.5°	8171.9	8143.9	8132.7	8118.7	8059.9	8029.1	7995.5	7989.9	7928.4	7780.0	7584.0
20°	8521.9	8561.1	8538.7	8524.7	8465.9	8407.1	8381.9	8373.5	8320.3	8157.9	7844.4
22.5°	8939.0	8947.4	8955.8	8922.2	8894.2	8849.4	8804.6	8790.6	8771.0	8603.1	8219.5
25°	9384.1	9417.7	9389.7	9356.1	9322.5	9319.7	9361.7	9356.1	9347.7	9185.4	8717.8
27.5°	10109.2	10140.0	10148.4	10112.0	9983.2	9994.4	10089.6	10120.4	10249.2	9980.4	9358.9
30°	10518.0	10548.7	10618.7	10755.9	10960.3	11139.5	11369.0	11439.0	11562.2	11055.5	10120.4
32.5°	10769.9	10781.1	10907.1	11161.9	11775.0	12444.1	13068.4	13093.5	13171.9	12460.8	10817.5
35°	11167.5	11175.9	11276.6	11556.6	12276.1	13390.3	14356.2	14386.9	14322.6	12897.6	11142.3
37.5°	11657.4	11679.8	11744.2	11976.5	12836.0	14182.6	14890.9	14868.5	14297.4	13244.7	11716.2
40°	12371.3	12371.3	12295.7	12609.2	13426.7	14636.1	15078.4	15039.2	14888.1	14249.8	12589.6
42.5°	13001.2	12990.0	13169.1	13381.9	14165.8	15336.0	15865.1	15929.5	16178.7	15512.4	13583.5
45°	13821.4	13871.8	13972.6	14359.0	15422.8	16531.4	17214.5	17276.1	17628.8	16998.9	14745.3
47.5°	14650.1	14666.9	14983.3	15498.4	16979.3	18152.4	18712.3	18813.1	19135.0	18737.5	15996.7
50°	15238.0	15397.6	15904.3	16716.2	18583.5	20128.8	20565.6	20686.0	21254.3	20630.0	17455.3
52.5°	15859.5	16016.3	16635.0	17872.4	20425.6	22150.1	22687.6	22768.8	23359.5	22544.9	18947.4
55°	16391.4	16537.0	17239.7	18897.0	21892.6	24213.4	25187.7	25092.5	25375.2	24020.2	20098.1
57.5°	16478.2	16595.8	17480.5	19552.1	22995.6	25982.7	27379.7	27435.7	27108.2	25123.3	21047.1
60°	15806.3	16047.1	17063.3	19482.1	23491.1	27214.5	29014.7	29053.9	28124.4	25688.8	21425.0
62.5°	14616.5	14591.3	15820.3	18356.7	22796.8	27494.5	29977.7	29935.7	28521.9	25417.2	21058.3
64°	12973.2	13275.5	14423.3	16973.7	21677.0	27063.4	30078.5	30056.1	28331.6	24851.7	20434.0
65°	11970.9	11954.1	13088.0	15842.7	20562.8	26413.9	29899.3	29868.5	27934.0	24345.0	19949.7
67.5°	8642.2	8681.4	9801.3	12225.7	16716.2	23874.7	28731.9	28617.1	26366.3	22665.3	18107.6
70°	5235.2	5257.6	6136.6	8110.3	11998.9	19300.2	25898.7	25904.3	23967.0	20156.8	15411.6
72.5°	2757.6	2816.4	3169.1	4605.3	7287.3	13541.5	21010.7	21509.0	20576.8	17203.3	12175.3
75°	1534.2	1542.6	1791.7	2270.4	3717.8	7578.4	15792.3	15935.1	16290.6	13846.6	9003.4
77.5°	1170.2	1187.0	1265.4	1467.0	2024.1	3513.4	9557.7	10274.4	11481.0	9762.1	5137.2
80°	949.1	965.8	1033.0	1153.4	1346.6	1665.7	4440.1	4826.4	6145.0	4333.7	2004.5
82.5°	739.1	727.9	814.7	893.1	979.8	985.4	1822.5	2015.7	2502.8	1864.5	867.9
85°	548.7	548.7	618.7	601.9	632.7	576.7	803.5	887.5	1002.2	792.3	403.1
87.5°	218.4	240.8	405.9	363.9	282.8	226.8	296.8	313.6	347.1	310.8	168.0
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°	6738.5	6738.5	6738.5	6738.5	6738.5	6738.5	6738.5	6738.5	6738.5	6738.5	6738.5
2.5°	6749.7	6758.1	6738.5	6724.5	6718.9	6710.5	6702.2	6705.0	6716.1	6727.3	6724.5
5°	6783.3	6786.1	6752.5	6735.7	6724.5	6713.3	6713.3	6721.7	6744.1	6760.9	6760.9
7.5°	6867.3	6867.3	6819.7	6788.9	6772.1	6752.5	6746.9	6749.7	6766.5	6788.9	6791.7
10°	6998.9	6987.7	6926.1	6878.5	6847.7	6800.1	6758.1	6735.7	6744.1	6758.1	6758.1
12.5°	7158.5	7127.7	7049.3	6984.9	6909.3	6819.7	6732.9	6688.2	6685.4	6699.4	6693.8
15°	7329.3	7295.7	7186.5	7068.9	6937.3	6805.7	6702.2	6637.8	6587.4	6573.4	6604.2
17.5°	7528.0	7458.0	7306.9	7144.5	6948.5	6777.7	6615.4	6483.8	6394.2	6369.0	6377.4
20°	7768.8	7676.4	7472.0	7217.3	6940.1	6677.0	6425.0	6248.6	6103.0	6058.3	6063.9
22.5°	8101.9	7942.4	7642.8	7253.7	6870.1	6486.6	6136.6	5907.1	5730.7	5660.7	5702.7
25°	8479.9	8306.3	7805.2	7245.3	6688.2	6181.4	5795.1	5495.5	5336.0	5232.4	5254.8
27.5°	9000.6	8692.6	7978.8	7169.7	6427.8	5809.1	5361.2	5078.4	4932.8	4879.6	4904.8
30°	9666.9	9193.8	8166.3	6965.3	6016.3	5338.8	4924.4	4739.7	4652.9	4585.7	4608.1
32.5°	10148.4	9546.5	8208.3	6621.0	5571.1	4910.4	4627.7	4490.5	4395.3	4330.9	4344.9
35°	10492.8	9846.1	8188.7	6198.2	5106.4	4557.7	4392.5	4280.5	4126.6	3986.6	3961.4
37.5°	10954.7	10221.2	8045.9	5736.3	4647.3	4319.7	4202.1	3995.0	3773.8	3586.2	3577.8
40°	11663.0	10660.7	7740.8	5193.2	4255.3	4143.4	4000.6	3731.8	3493.9	3342.7	3331.5
42.5°	12393.7	11066.7	7326.5	4622.1	3933.4	3958.6	3785.0	3519.0	3373.5	3275.5	3264.3
45°	13286.7	11506.2	6878.5	4126.6	3695.4	3785.0	3597.4	3443.5	3356.7	3292.3	3275.5
47.5°	14252.6	11956.9	6374.6	3681.4	3493.9	3625.4	3519.0	3449.1	3401.5	3356.7	3337.1
50°	15294.0	12460.8	5901.5	3323.1	3311.9	3460.3	3510.7	3485.5	3457.5	3443.5	3426.7
52.5°	16436.2	12976.0	5503.9	3071.1	3152.3	3342.7	3513.4	3533.0	3533.0	3524.6	3513.4
55°	17208.9	13334.3	5100.8	2866.8	2989.9	3247.5	3507.9	3583.4	3611.4	3600.2	3589.0
57.5°	17780.0	13530.3	4594.1	2690.4	2852.8	3155.1	3477.1	3589.0	3617.0	3631.0	3625.4
60°	17897.6	13348.3	3930.6	2505.6	2704.4	3020.7	3365.1	3505.1	3541.4	3628.2	3636.6
62.5°	17368.5	12788.4	3269.9	2323.6	2522.4	2816.4	3213.9	3409.9	3482.7	3617.0	3631.0
64°	16719.0	12161.3	2903.1	2208.9	2404.8	2701.6	3138.3	3384.7	3479.9	3659.0	3670.2
65°	16243.1	11705.0	2673.6	2136.1	2329.2	2626.0	3096.3	3393.1	3505.1	3723.4	3740.2
67.5°	14490.5	10134.4	2211.7	1965.3	2150.1	2497.2	3104.7	3463.1	3499.5	3748.6	3745.8
70°	11990.5	8068.3	1853.3	1808.5	1976.5	2393.6	3071.1	3351.1	3353.9	3519.0	3479.9
72.5°	8978.2	5963.1	1606.9	1646.1	1783.3	2147.3	2900.3	3199.9	3152.3	3174.7	3135.5
75°	6167.4	3944.6	1383.0	1472.6	1581.8	1898.1	2659.6	2905.9	2830.4	2802.4	2774.4
77.5°	3292.3	2180.9	1150.6	1301.8	1374.6	1640.5	2320.8	2558.8	2480.4	2371.2	2334.8
80°	1332.6	1027.4	926.7	1077.8	1119.8	1321.4	1931.7	2080.1	2021.3	1830.9	1769.3
82.5°	669.1	615.9	727.9	848.3	851.1	943.5	1436.2	1576.2	1444.6	1212.2	1159.0
85°	349.9	361.1	501.1	596.3	526.3	509.5	862.3	954.7	876.3	761.5	685.9
87.5°	126.0	145.6	263.2	260.4	184.8	98.0	190.4	92.4	50.4	30.8	39.2
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)