

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: P458477

Luminaire Tested: **GALN-SA9D-827-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458477
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-SA9D-827-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51124 lumens
Efficiency: N/A
Efficacy: 92.6 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

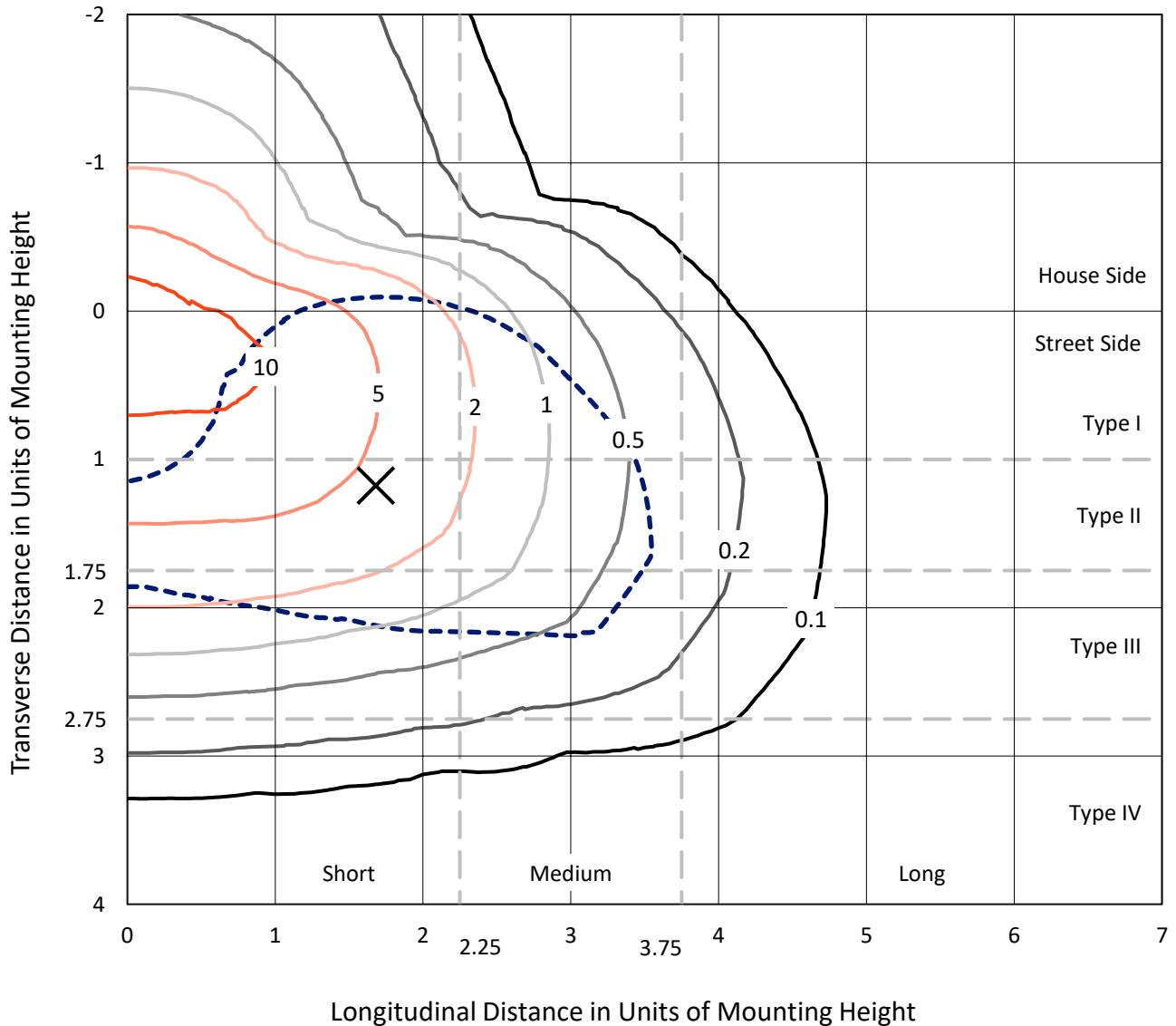
Input Watts (W): 552
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

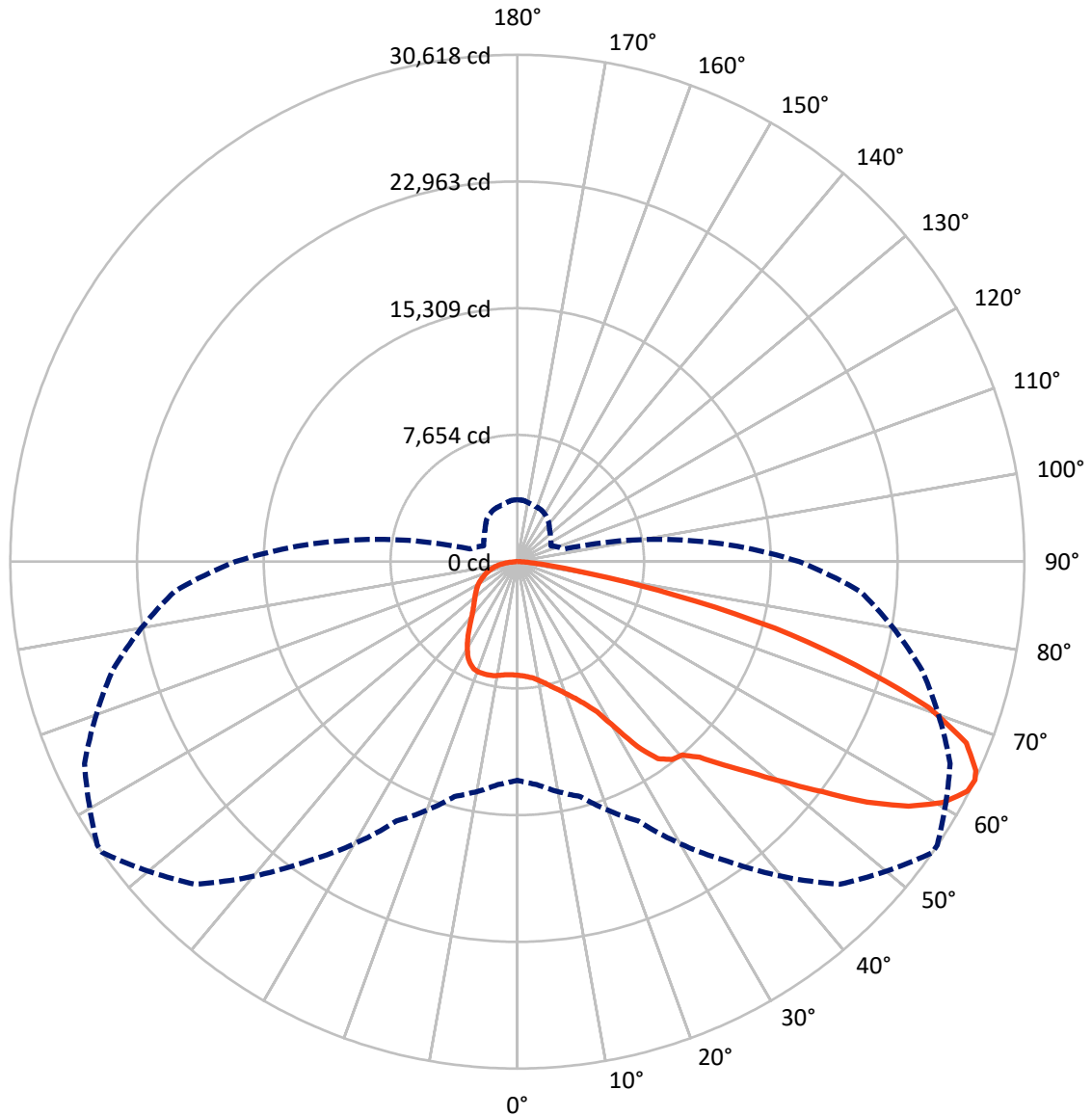
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.5 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	12419.0	0.0	12419.0
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	38705.0	0.0	38705.0
	% Fixture	75.7	0.0	75.7
Total	Lumens	51124.0	0.0	51124.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	667.2	1.3
10°-20°	2105.3	4.1
20°-30°	3748.0	7.3
30°-40°	5766.7	11.3
40°-50°	8174.8	16.0
50°-60°	11832.8	23.1
60°-70°	12245.6	24.0
70°-80°	5734.7	11.2
80°-90°	849.0	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°	51124.0	100.0
0°-180°	51124.0	100.0

Coefficient of Utilization



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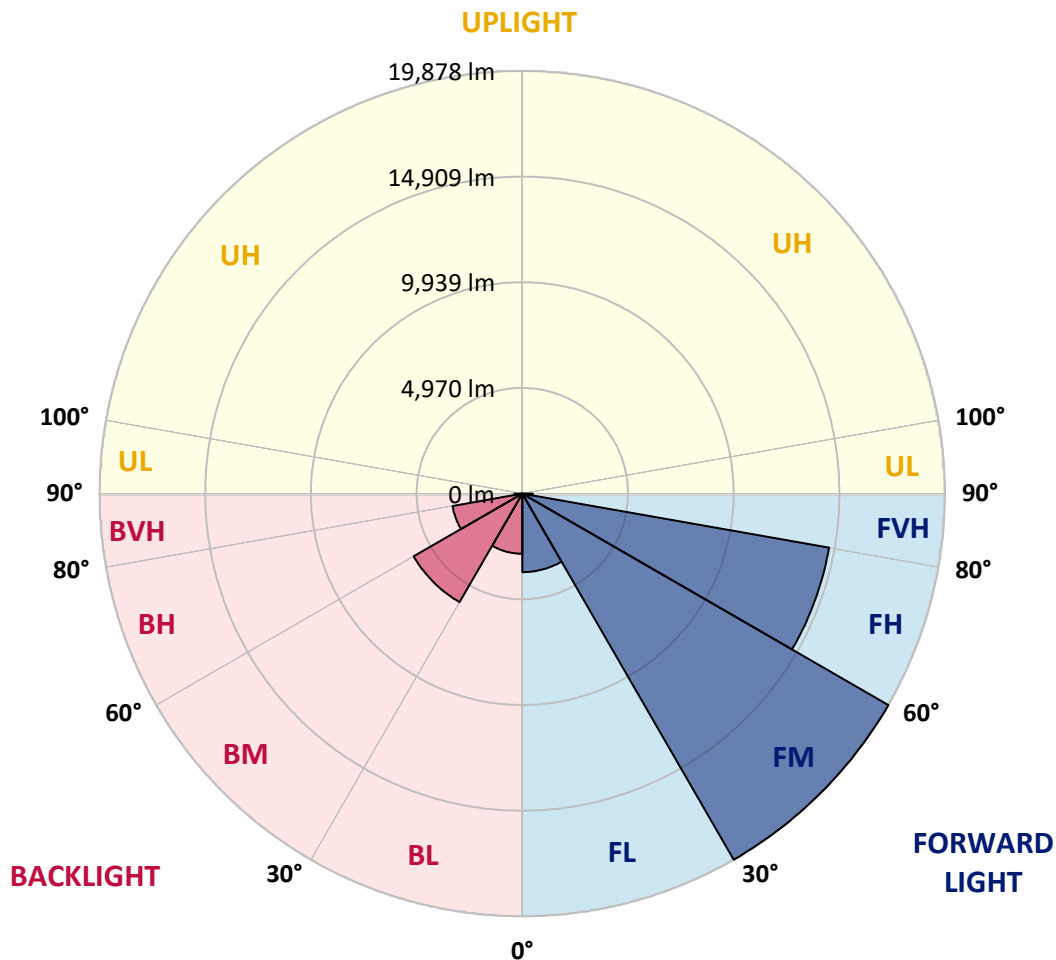
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3692.0	7.2			
FM	(30°-60°)	19878.4	38.9			
FH	(60°-80°)	14648.5	28.7			G5
FVH	(80°-90°)	486.1	1.0			G3/500
BL	(0°-30°)	2828.6	5.5	B4/5000		
BM	(30°-60°)	5895.8	11.5	B4/8500		
BH	(60°-80°)	3331.8	6.5	B4/5000		G4/5000
BVH	(80°-90°)	362.9	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°	6859.3	6859.3	6859.3	6859.3	6859.3	6859.3	6859.3	6859.3	6859.3	6859.3	6859.3
2.5°	6936.2	6933.4	6941.9	6933.4	6939.1	6919.1	6910.6	6916.3	6907.7	6893.5	6867.8
5°	7021.7	7018.9	7021.7	7010.3	7016.0	7004.6	6984.7	6990.4	6976.1	6944.8	6907.7
7.5°	7167.1	7155.7	7155.7	7152.8	7141.4	7124.3	7110.1	7104.4	7090.1	7050.2	6993.2
10°	7355.2	7355.2	7358.0	7335.2	7349.5	7318.1	7303.9	7301.0	7252.6	7201.3	7121.5
12.5°	7603.1	7617.3	7608.8	7597.4	7591.7	7580.3	7531.8	7543.2	7489.1	7400.7	7303.9
15°	7910.8	7933.6	7919.4	7913.7	7899.4	7856.7	7836.8	7828.2	7757.0	7628.7	7500.5
17.5°	8318.4	8289.9	8278.5	8264.2	8204.4	8173.0	8138.8	8133.1	8070.4	7919.4	7719.9
20°	8674.6	8714.5	8691.7	8677.4	8617.6	8557.7	8532.1	8523.5	8469.4	8304.1	7984.9
22.5°	9099.2	9107.7	9116.3	9082.1	9053.6	9008.0	8962.4	8948.1	8928.2	8757.2	8366.8
25°	9552.3	9586.5	9558.0	9523.8	9489.6	9486.7	9529.5	9523.8	9515.2	9350.0	8874.1
27.5°	10290.4	10321.7	10330.3	10293.2	10162.1	10173.5	10270.4	10301.8	10432.9	10159.3	9526.6
30°	10706.4	10737.8	10809.0	10948.7	11156.7	11339.1	11572.7	11644.0	11769.4	11253.6	10301.8
32.5°	10962.9	10974.3	11102.5	11361.9	11986.0	12667.0	13302.5	13328.2	13408.0	12684.1	11011.4
35°	11367.6	11376.1	11478.7	11763.7	12496.1	13630.3	14613.4	14644.8	14579.2	13128.7	11341.9
37.5°	11866.3	11889.1	11954.6	12191.1	13066.0	14436.7	15157.7	15134.9	14553.6	13482.1	11926.1
40°	12593.0	12593.0	12516.0	12835.2	13667.3	14898.4	15348.6	15308.7	15154.9	14505.1	12815.2
42.5°	13234.1	13222.7	13405.1	13621.7	14419.6	15610.8	16149.4	16215.0	16468.6	15790.3	13826.9
45°	14069.1	14120.4	14223.0	14616.3	15699.2	16827.6	17523.0	17585.7	17944.7	17303.6	15009.5
47.5°	14912.6	14929.7	15251.7	15776.1	17283.6	18477.6	19047.6	19150.2	19477.9	19073.2	16283.4
50°	15511.1	15673.5	16189.3	17015.7	18916.5	20489.6	20934.1	21056.6	21635.1	20999.7	17768.1
52.5°	16143.7	16303.3	16933.1	18192.7	20791.6	22547.1	23094.2	23176.8	23778.1	22948.9	19287.0
55°	16685.2	16833.3	17548.6	19235.7	22284.9	24647.3	25639.0	25542.1	25829.9	24450.7	20458.2
57.5°	16773.5	16893.2	17793.7	19902.5	23407.7	26448.3	27870.3	27927.3	27593.9	25573.5	21424.3
60°	16089.6	16334.6	17369.1	19831.3	23912.1	27702.2	29534.6	29574.5	28628.4	26149.1	21809.0
62.5°	14878.4	14852.8	16103.8	18685.7	23205.3	27987.2	30514.9	30472.2	29033.0	25872.7	21435.7
64°	13205.6	13513.4	14681.8	17277.9	22065.5	27548.3	30617.5	30594.7	28839.3	25297.0	20800.2
65°	12185.4	12168.3	13322.5	16126.6	20931.3	26887.2	30435.1	30403.8	28434.6	24781.2	20307.2
67.5°	8797.1	8837.0	9976.9	12444.8	17015.7	24302.5	29246.8	29129.9	26838.7	23071.4	18432.0
70°	5329.0	5351.8	6246.6	8255.7	12213.9	19646.0	26362.8	26368.5	24396.5	20518.0	15687.8
72.5°	2807.0	2866.8	3225.9	4687.8	7417.8	13784.1	21387.2	21894.5	20945.5	17511.6	12393.5
75°	1561.7	1570.2	1823.8	2311.1	3784.4	7714.2	16075.3	16220.7	16582.6	14094.8	9164.7
77.5°	1191.2	1208.3	1288.1	1493.3	2060.4	3576.4	9729.0	10458.5	11686.7	9937.0	5229.3
80°	966.1	983.2	1051.6	1174.1	1370.7	1695.6	4519.7	4912.9	6255.2	4411.4	2040.4
82.5°	752.3	740.9	829.3	909.1	997.4	1003.1	1855.2	2051.8	2547.7	1897.9	883.4
85°	558.5	558.5	629.8	612.7	644.0	587.0	817.9	903.4	1020.2	806.5	410.4
87.5°	222.3	245.1	413.2	370.5	287.8	230.8	302.1	319.2	353.4	316.3	171.0
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°	6859.3	6859.3	6859.3	6859.3	6859.3	6859.3	6859.3	6859.3	6859.3	6859.3	6859.3
2.5°	6870.7	6879.2	6859.3	6845.0	6839.3	6830.8	6822.3	6825.1	6836.5	6847.9	6845.0
5°	6904.9	6907.7	6873.5	6856.4	6845.0	6833.7	6833.7	6842.2	6865.0	6882.1	6882.1
7.5°	6990.4	6990.4	6941.9	6910.6	6893.5	6873.5	6867.8	6870.7	6887.8	6910.6	6913.4
10°	7124.3	7112.9	7050.2	7001.8	6970.4	6922.0	6879.2	6856.4	6865.0	6879.2	6879.2
12.5°	7286.8	7255.4	7175.6	7110.1	7033.1	6941.9	6853.6	6808.0	6805.2	6819.4	6813.7
15°	7460.6	7426.4	7315.3	7195.6	7061.6	6927.7	6822.3	6756.7	6705.4	6691.2	6722.5
17.5°	7662.9	7591.7	7437.8	7272.5	7073.0	6899.2	6733.9	6600.0	6508.8	6483.1	6491.7
20°	7908.0	7814.0	7605.9	7346.6	7064.5	6796.6	6540.1	6360.6	6212.4	6166.8	6172.5
22.5°	8247.1	8084.7	7779.8	7383.6	6993.2	6602.8	6246.6	6012.9	5833.4	5762.2	5804.9
25°	8631.8	8455.1	7945.0	7375.1	6808.0	6292.2	5898.9	5594.0	5431.6	5326.1	5348.9
27.5°	9161.9	8848.4	8121.7	7298.2	6543.0	5913.2	5457.2	5169.4	5021.2	4967.1	4992.7
30°	9840.1	9358.5	8312.7	7090.1	6124.1	5434.4	5012.7	4824.6	4736.2	4667.9	4690.7
32.5°	10330.3	9717.6	8355.4	6739.6	5671.0	4998.4	4710.6	4571.0	4474.1	4408.5	4422.8
35°	10680.8	10022.5	8335.5	6309.3	5197.9	4639.4	4471.2	4357.2	4200.5	4058.0	4032.4
37.5°	11151.0	10404.4	8190.1	5839.1	4730.6	4397.1	4277.4	4066.6	3841.4	3650.5	3642.0
40°	11872.0	10851.8	7879.5	5286.2	4331.6	4217.6	4072.3	3798.7	3556.5	3402.6	3391.2
42.5°	12615.8	11265.0	7457.7	4704.9	4003.9	4029.5	3852.8	3582.1	3433.9	3334.2	3322.8
45°	13524.8	11712.4	7001.8	4200.5	3761.6	3852.8	3661.9	3505.2	3416.8	3351.3	3334.2
47.5°	14508.0	12171.2	6488.8	3747.4	3556.5	3690.4	3582.1	3510.9	3462.4	3416.8	3396.9
50°	15568.1	12684.1	6007.2	3382.6	3371.2	3522.3	3573.6	3547.9	3519.4	3505.2	3488.1
52.5°	16730.8	13208.5	5602.6	3126.2	3208.8	3402.6	3576.4	3596.4	3596.4	3587.8	3576.4
55°	17517.3	13573.3	5192.2	2918.1	3043.5	3305.7	3570.7	3647.7	3676.2	3664.8	3653.4
57.5°	18098.6	13772.7	4676.4	2738.6	2903.9	3211.6	3539.4	3653.4	3681.8	3696.1	3690.4
60°	18218.3	13587.5	4001.0	2550.5	2752.8	3074.9	3425.4	3567.9	3604.9	3693.2	3701.8
62.5°	17679.7	13017.6	3328.5	2365.3	2567.6	2866.8	3271.5	3471.0	3545.1	3681.8	3696.1
64°	17018.6	12379.2	2955.2	2248.4	2447.9	2750.0	3194.5	3445.3	3542.2	3724.6	3736.0
65°	16534.1	11914.7	2721.5	2174.3	2371.0	2673.0	3151.8	3453.9	3567.9	3790.1	3807.2
67.5°	14750.2	10316.0	2251.3	2000.5	2188.6	2542.0	3160.3	3525.1	3562.2	3815.8	3812.9
70°	12205.4	8212.9	1886.5	1840.9	2011.9	2436.5	3126.2	3411.1	3414.0	3582.1	3542.2
72.5°	9139.1	6069.9	1635.7	1675.6	1815.3	2185.7	2952.3	3257.2	3208.8	3231.6	3191.7
75°	6278.0	4015.3	1407.8	1499.0	1610.1	1932.1	2707.2	2958.0	2881.1	2852.6	2824.1
77.5°	3351.3	2219.9	1171.2	1325.1	1399.2	1669.9	2362.4	2604.7	2524.9	2413.7	2376.7
80°	1356.5	1045.9	943.3	1097.1	1139.9	1345.1	1966.3	2117.3	2057.5	1863.7	1801.0
82.5°	681.1	626.9	740.9	863.5	866.3	960.4	1461.9	1604.4	1470.5	1233.9	1179.8
85°	356.2	367.6	510.1	607.0	535.7	518.7	877.7	971.8	892.0	775.1	698.2
87.5°	128.2	148.2	267.9	265.0	188.1	99.7	193.8	94.0	51.3	31.3	39.9
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)