

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: P458216

Luminaire Tested: **GALN-SA9C-760-U-T3**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458216
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-760-U-T3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 63203 lumens
Efficiency: N/A
Efficacy: 131.4 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

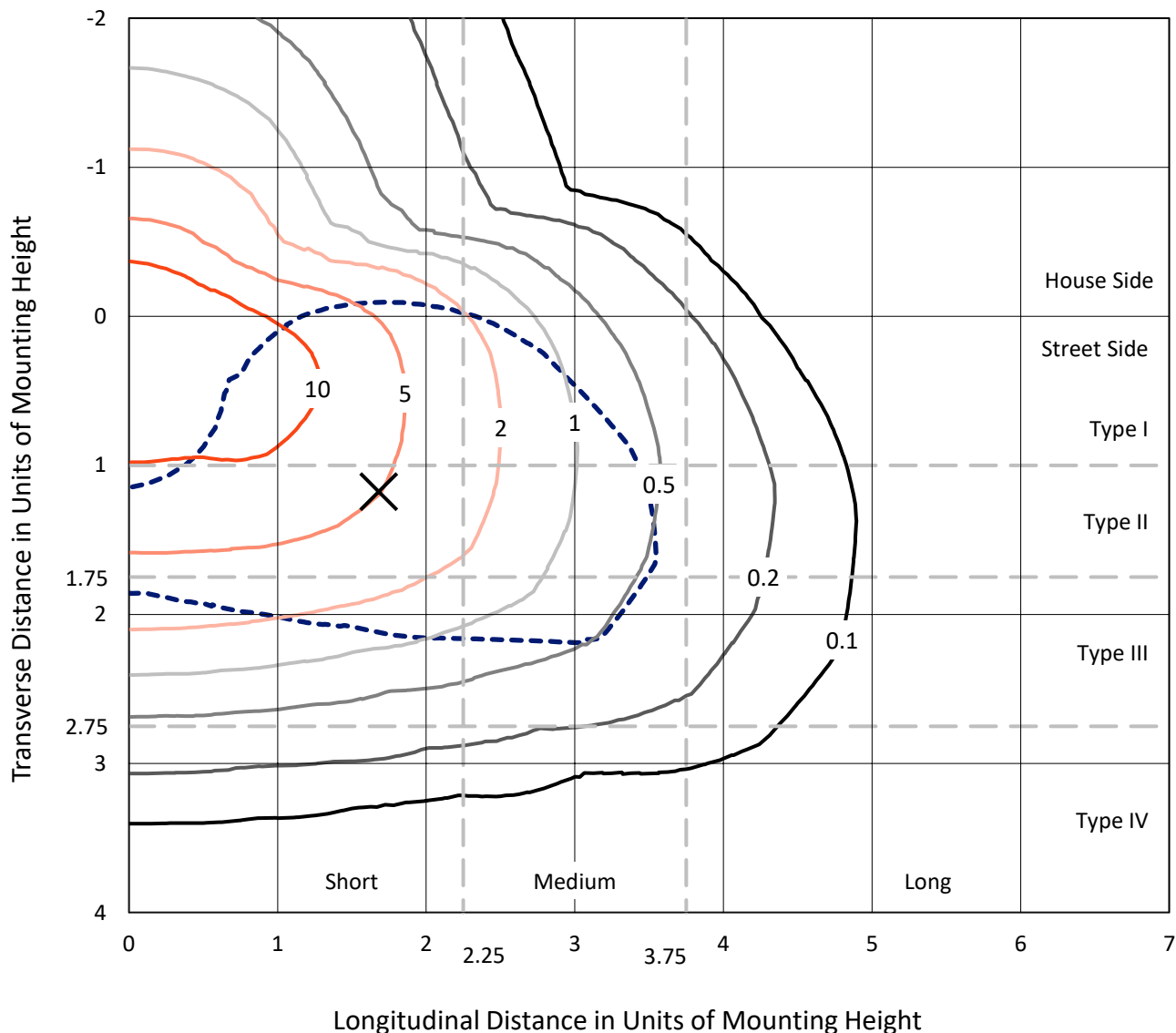
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

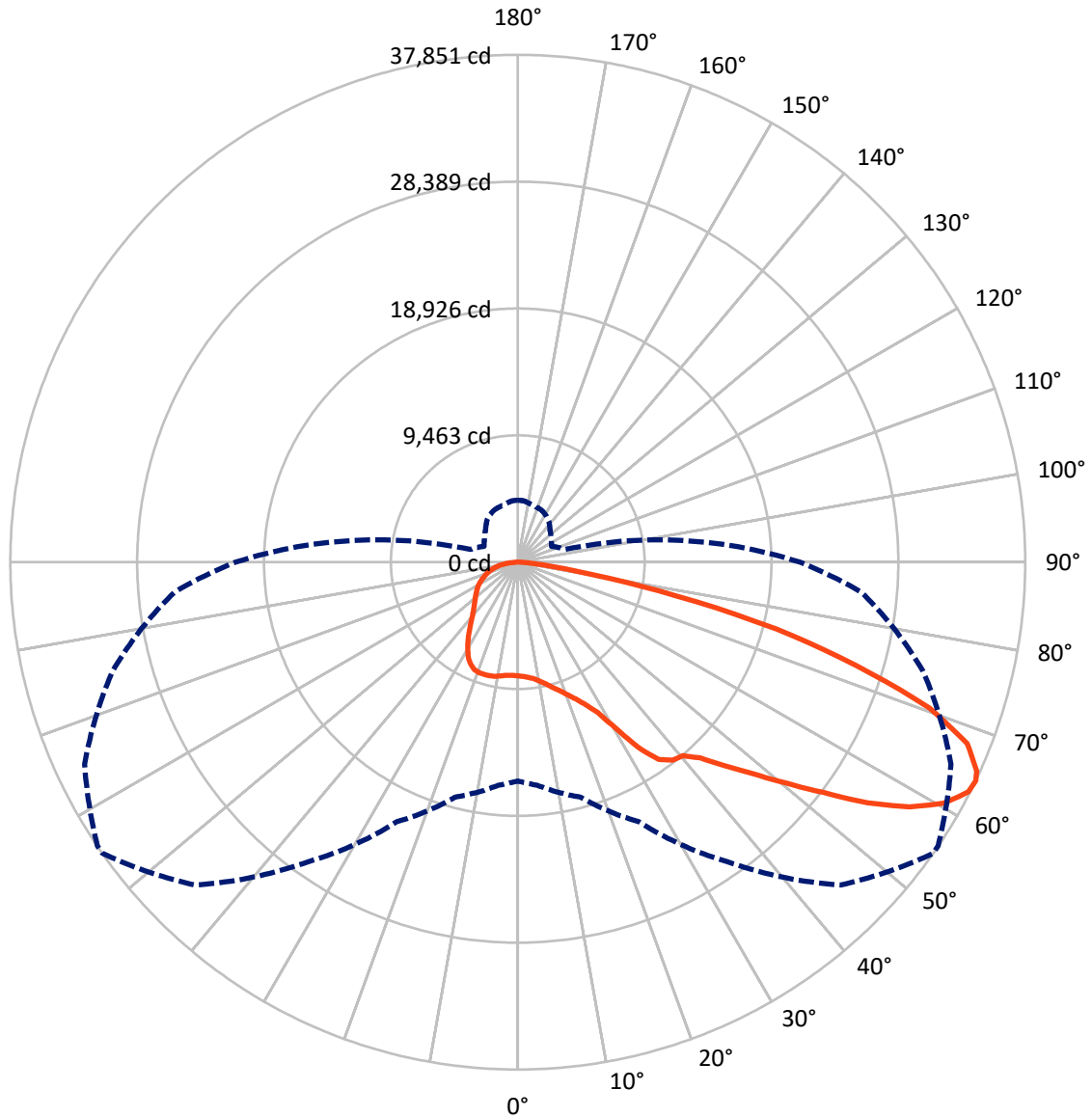
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 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	15353.3	0.0	15353.3
	% Fixture	24.3	0.0	24.3
Street Side	Lumens	47849.7	0.0	47849.7
	% Fixture	75.7	0.0	75.7
Total	Lumens	63203.0	0.0	63203.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	824.9	1.3
10°-20°	2602.7	4.1
20°-30°	4633.6	7.3
30°-40°	7129.2	11.3
40°-50°	10106.2	16.0
50°-60°	14628.5	23.1
60°-70°	15138.9	24.0
70°-80°	7089.6	11.2
80°-90°	1049.5	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°	63203.0	100.0
0°-180°	63203.0	100.0

Coefficient of Utilization



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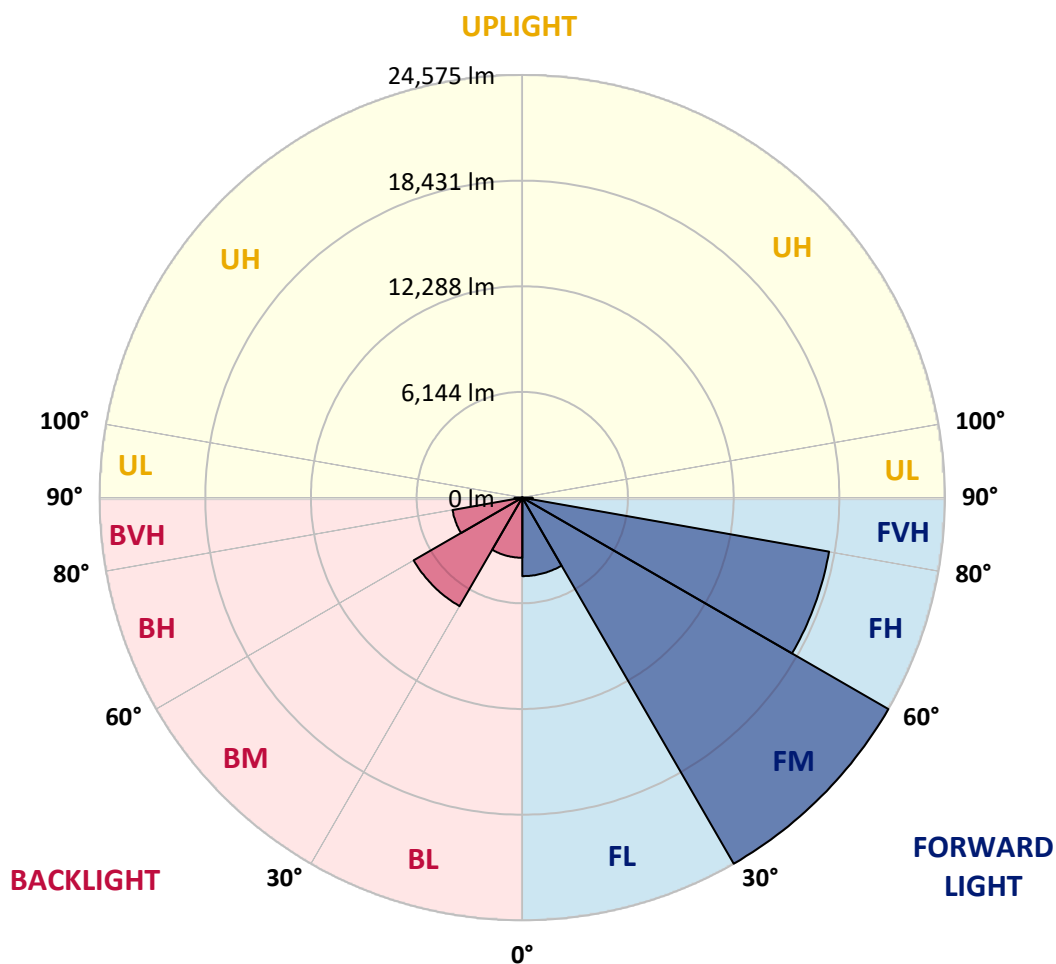
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4564.3	7.2			
FM	(30°-60°)	24575.0	38.9			
FH	(60°-80°)	18109.5	28.7			G5
FVH	(80°-90°)	600.9	1.0			G4/750
BL	(0°-30°)	3496.9	5.5	B4/5000		
BM	(30°-60°)	7288.8	11.5	B4/8500		
BH	(60°-80°)	4119.0	6.5	B4/5000		G4/5000
BVH	(80°-90°)	448.6	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°	8479.9	8479.9	8479.9	8479.9	8479.9	8479.9	8479.9	8479.9	8479.9	8479.9	8479.9
2.5°	8575.1	8571.5	8582.1	8571.5	8578.6	8553.9	8543.3	8550.4	8539.8	8522.2	8490.5
5°	8680.7	8677.2	8680.7	8666.7	8673.7	8659.6	8634.9	8642.0	8624.4	8585.6	8539.8
7.5°	8860.4	8846.3	8846.3	8842.8	8828.7	8807.6	8790.0	8782.9	8765.3	8716.0	8645.5
10°	9092.9	9092.9	9096.5	9068.3	9085.9	9047.1	9029.5	9026.0	8966.1	8902.7	8804.1
12.5°	9399.4	9417.1	9406.5	9392.4	9385.4	9371.3	9311.4	9325.5	9258.5	9149.3	9029.5
15°	9779.9	9808.1	9790.5	9783.5	9765.8	9713.0	9688.3	9677.8	9589.7	9431.2	9272.6
17.5°	10283.7	10248.5	10234.4	10216.8	10142.8	10104.1	10061.8	10054.7	9977.2	9790.5	9543.9
20°	10724.1	10773.4	10745.2	10727.6	10653.6	10579.7	10548.0	10537.4	10470.4	10266.1	9871.5
22.5°	11249.0	11259.6	11270.2	11227.9	11192.7	11136.3	11079.9	11062.3	11037.7	10826.3	10343.6
25°	11809.2	11851.5	11816.2	11774.0	11731.7	11728.2	11781.0	11774.0	11763.4	11559.1	10970.7
27.5°	12721.7	12760.4	12771.0	12725.2	12563.1	12577.2	12697.0	12735.8	12897.8	12559.6	11777.5
30°	13236.0	13274.8	13362.9	13535.5	13792.7	14018.1	14307.0	14395.1	14550.1	13912.4	12735.8
32.5°	13553.1	13567.2	13725.7	14046.3	14817.9	15659.9	16445.5	16477.2	16575.9	15681.0	13613.0
35°	14053.4	14063.9	14190.8	14543.1	15448.5	16850.7	18066.1	18104.9	18023.8	16230.6	14021.7
37.5°	14669.9	14698.1	14779.1	15071.5	16153.1	17847.7	18739.0	18710.8	17992.1	16667.5	14743.9
40°	15568.3	15568.3	15473.2	15867.7	16896.5	18418.4	18975.0	18925.7	18735.5	17932.2	15843.1
42.5°	16361.0	16346.9	16572.3	16840.1	17826.5	19299.2	19965.0	20046.0	20359.6	19521.1	17093.7
45°	17393.2	17456.6	17583.4	18069.6	19408.4	20803.5	21663.1	21740.6	22184.5	21391.8	18555.8
47.5°	18436.0	18457.2	18855.3	19503.5	21367.2	22843.3	23547.9	23674.8	24079.9	23579.6	20130.6
50°	19175.9	19376.7	20014.3	21036.0	23385.9	25330.6	25880.2	26031.7	26746.8	25961.2	21966.1
52.5°	19958.0	20155.3	20933.8	22491.0	25704.0	27874.2	28550.6	28652.8	29396.2	28371.0	23843.9
55°	20627.3	20810.5	21694.8	23780.5	27550.1	30470.7	31696.7	31576.9	31932.8	30227.6	25291.8
57.5°	20736.6	20884.5	21997.8	24604.8	28938.2	32697.2	34455.2	34525.7	34113.5	31615.7	26486.1
60°	19891.0	20194.0	21472.9	24516.8	29561.8	34247.4	36512.7	36562.0	35392.4	32327.3	26961.8
62.5°	18393.7	18362.0	19908.6	23100.5	28688.0	34599.7	37724.6	37671.8	35892.6	31985.6	26500.2
64°	16325.7	16706.2	18150.7	21360.1	27278.8	34057.1	37851.4	37823.3	35653.1	31273.9	25714.6
65°	15064.5	15043.3	16470.2	19936.8	25876.7	33239.8	37626.0	37587.2	35152.8	30636.3	25105.1
67.5°	10875.6	10924.9	12334.1	15385.1	21036.0	30044.4	36156.9	36012.4	33179.9	28522.5	22787.0
70°	6588.1	6616.3	7722.5	10206.2	15099.7	24287.8	32591.6	32598.6	30160.7	25365.8	19394.3
72.5°	3470.2	3544.2	3988.1	5795.4	9170.4	17040.9	26440.3	27067.4	25894.3	21649.0	15321.7
75°	1930.6	1941.2	2254.7	2857.2	4678.6	9536.8	19873.4	20053.1	20500.5	17424.9	11330.1
77.5°	1472.6	1493.8	1592.4	1846.1	2547.2	4421.4	12027.6	12929.5	14447.9	12284.8	6464.8
80°	1194.3	1215.4	1300.0	1451.5	1694.6	2096.2	5587.5	6073.7	7733.1	5453.7	2522.5
82.5°	930.1	916.0	1025.2	1123.8	1233.1	1240.1	2293.5	2536.6	3149.6	2346.3	1092.1
85°	690.5	690.5	778.6	757.5	796.2	725.7	1011.1	1116.8	1261.2	997.0	507.3
87.5°	274.8	303.0	510.8	458.0	355.8	285.4	373.4	394.6	436.9	391.1	211.4
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°	8479.9	8479.9	8479.9	8479.9	8479.9	8479.9	8479.9	8479.9	8479.9	8479.9	8479.9
2.5°	8494.0	8504.6	8479.9	8462.3	8455.3	8444.7	8434.1	8437.7	8451.8	8465.8	8462.3
5°	8536.3	8539.8	8497.6	8476.4	8462.3	8448.2	8448.2	8458.8	8487.0	8508.1	8508.1
7.5°	8642.0	8642.0	8582.1	8543.3	8522.2	8497.6	8490.5	8494.0	8515.2	8543.3	8546.9
10°	8807.6	8793.5	8716.0	8656.1	8617.3	8557.4	8504.6	8476.4	8487.0	8504.6	8504.6
12.5°	9008.4	8969.6	8871.0	8790.0	8694.8	8582.1	8472.9	8416.5	8413.0	8430.6	8423.6
15°	9223.3	9181.0	9043.6	8895.7	8730.1	8564.5	8434.1	8353.1	8289.7	8272.1	8310.8
17.5°	9473.4	9385.4	9195.1	8990.8	8744.2	8529.3	8324.9	8159.3	8046.6	8014.9	8025.5
20°	9776.4	9660.2	9403.0	9082.4	8733.6	8402.4	8085.4	7863.4	7680.2	7623.8	7630.9
22.5°	10195.7	9994.8	9617.9	9128.2	8645.5	8162.9	7722.5	7433.6	7211.6	7123.6	7176.4
25°	10671.3	10452.8	9822.2	9117.6	8416.5	7778.9	7292.7	6915.7	6714.9	6584.5	6612.7
27.5°	11326.5	10939.0	10040.6	9022.5	8088.9	7310.3	6746.6	6390.8	6207.6	6140.6	6172.3
30°	12165.0	11569.6	10276.7	8765.3	7571.0	6718.4	6197.0	5964.5	5855.3	5770.7	5798.9
32.5°	12771.0	12013.5	10329.5	8332.0	7010.8	6179.4	5823.6	5650.9	5531.2	5450.1	5467.7
35°	13204.3	12390.5	10304.9	7800.0	6426.0	5735.5	5527.6	5386.7	5192.9	5016.8	4985.1
37.5°	13785.6	12862.6	10125.2	7218.7	5848.2	5436.0	5288.1	5027.4	4749.0	4513.0	4502.4
40°	14676.9	13415.7	9741.2	6535.2	5355.0	5214.1	5034.4	4696.2	4396.7	4206.5	4192.4
42.5°	15596.5	13926.5	9219.8	5816.5	4949.9	4981.6	4763.1	4428.4	4245.3	4121.9	4107.9
45°	16720.3	14479.7	8656.1	5192.9	4650.4	4763.1	4527.1	4333.3	4224.1	4143.1	4121.9
47.5°	17935.7	15046.9	8021.9	4632.8	4396.7	4562.3	4428.4	4340.4	4280.5	4224.1	4199.5
50°	19246.3	15681.0	7426.5	4181.8	4167.7	4354.5	4417.9	4386.2	4350.9	4333.3	4312.2
52.5°	20683.7	16329.2	6926.3	3864.8	3966.9	4206.5	4421.4	4446.1	4446.1	4435.5	4421.4
55°	21656.1	16780.2	6419.0	3607.6	3762.6	4086.7	4414.4	4509.5	4544.7	4530.6	4516.5
57.5°	22374.8	17026.8	5781.3	3385.6	3590.0	3970.5	4375.6	4516.5	4551.8	4569.4	4562.3
60°	22522.7	16797.8	4946.3	3153.1	3403.2	3801.4	4234.7	4410.8	4456.6	4565.8	4576.4
62.5°	21856.9	16093.2	4114.9	2924.1	3174.3	3544.2	4044.4	4291.1	4382.7	4551.8	4569.4
64°	21039.5	15304.0	3653.4	2779.7	3026.3	3399.7	3949.3	4259.3	4379.1	4604.6	4618.7
65°	20440.6	14729.8	3364.5	2688.1	2931.2	3304.6	3896.5	4269.9	4410.8	4685.6	4706.8
67.5°	18235.2	12753.4	2783.2	2473.2	2705.7	3142.5	3907.0	4358.0	4403.8	4717.3	4713.8
70°	15089.1	10153.4	2332.2	2275.9	2487.3	3012.2	3864.8	4217.1	4220.6	4428.4	4379.1
72.5°	11298.4	7504.1	2022.2	2071.5	2244.2	2702.2	3649.9	4026.8	3966.9	3995.1	3945.8
75°	7761.2	4964.0	1740.4	1853.1	1990.5	2388.6	3346.9	3656.9	3561.8	3526.6	3491.3
77.5°	4143.1	2744.4	1448.0	1638.2	1729.8	2064.5	2920.6	3220.1	3121.4	2984.0	2938.2
80°	1677.0	1293.0	1166.1	1356.4	1409.2	1662.9	2430.9	2617.6	2543.6	2304.1	2226.6
82.5°	842.0	775.1	916.0	1067.5	1071.0	1187.3	1807.3	1983.5	1817.9	1525.5	1458.5
85°	440.4	454.5	630.6	750.4	662.3	641.2	1085.1	1201.4	1102.7	958.3	863.1
87.5°	158.5	183.2	331.2	327.6	232.5	123.3	239.6	116.3	63.4	38.8	49.3
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)