

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: P459332

Luminaire Tested: **GALN-SA8A-735-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459332
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA8A-735-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3500K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34338 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

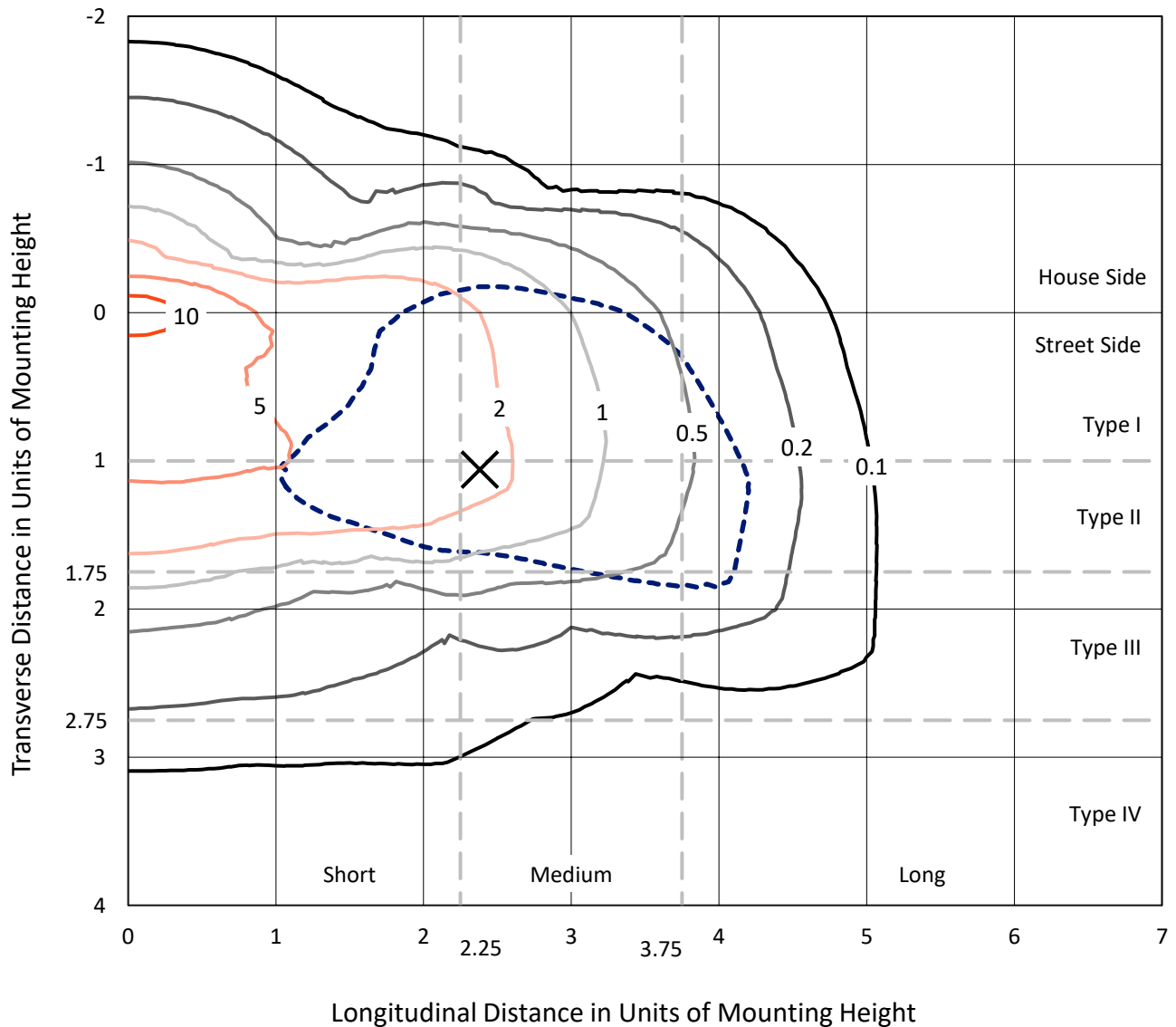
Input Watts (W): 244
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

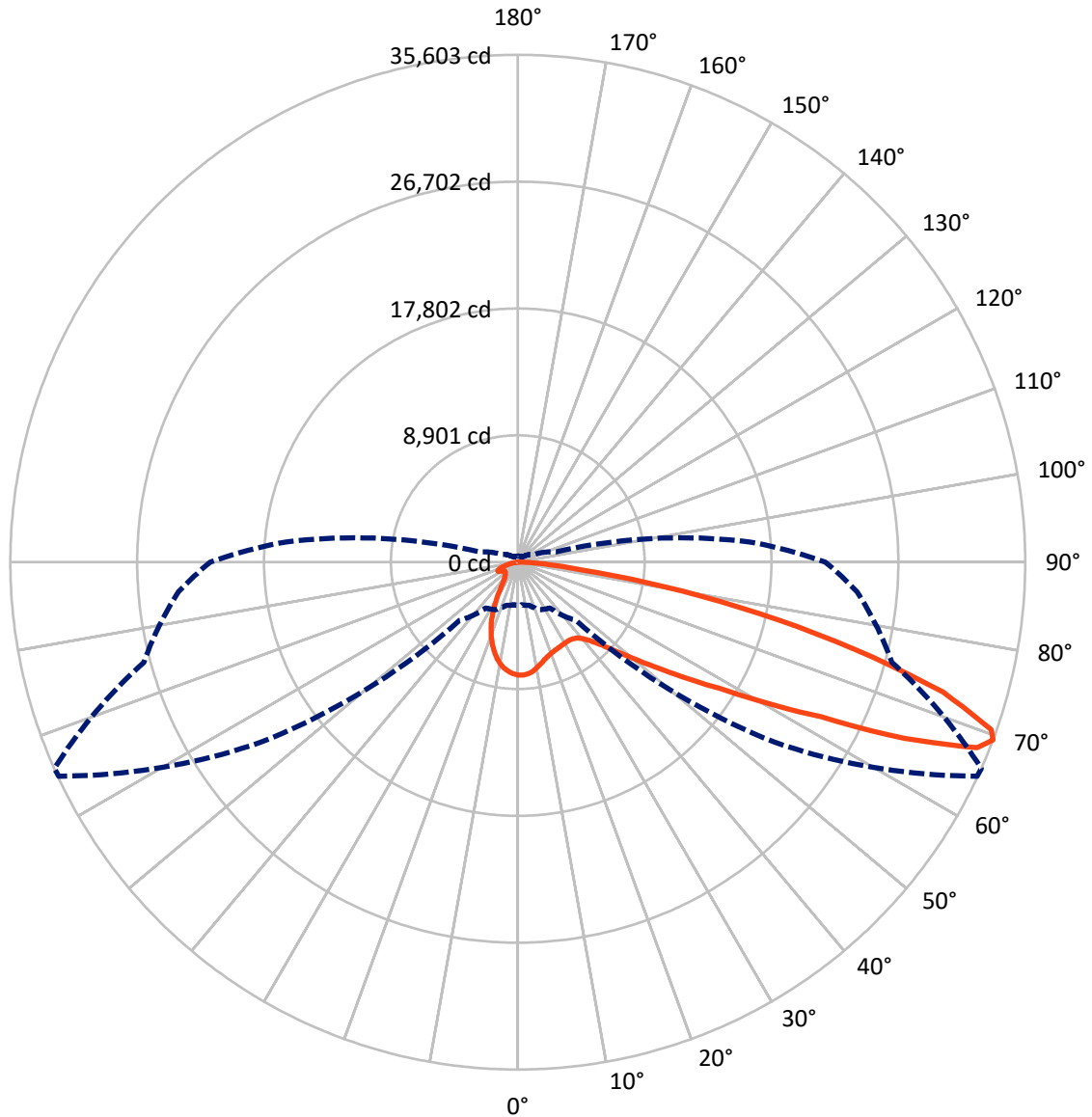
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6457.7	0.0	6457.7
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	27880.3	0.0	27880.3
	% Fixture	81.2	0.0	81.2
Total	Lumens	34338.0	0.0	34338.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	688.6	2.0
10°-20°	1633.3	4.8
20°-30°	2223.5	6.5
30°-40°	2987.9	8.7
40°-50°	4461.5	13.0
50°-60°	7096.7	20.7
60°-70°	8728.6	25.4
70°-80°	5679.2	16.5
80°-90°	838.6	2.4
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°	34338.0	100.0
0°-180°	34338.0	100.0

Coefficient of Utilization



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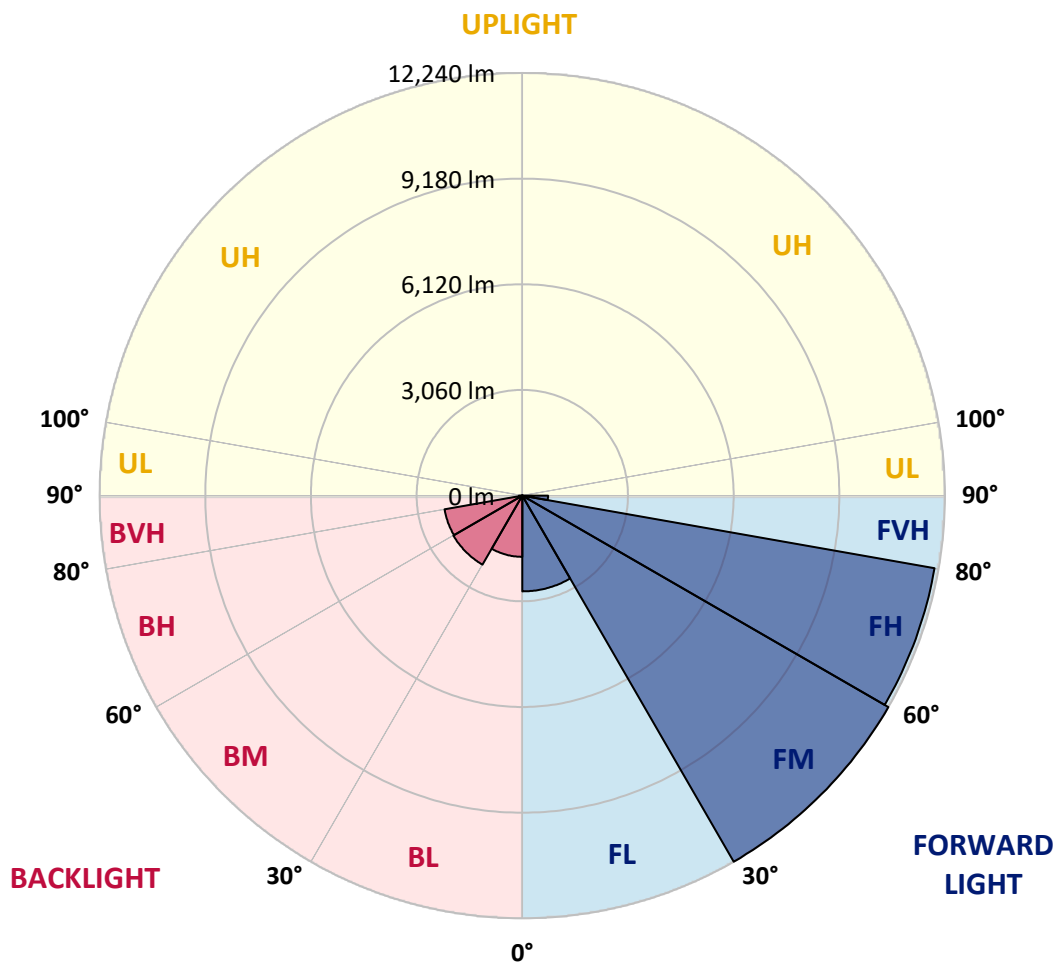
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2772.8	8.1			
FM	(30°-60°)	12240.5	35.6			
FH	(60°-80°)	12121.5	35.3			G5
FVH	(80°-90°)	745.6	2.2			G4/750
BL	(0°-30°)	1772.7	5.2	B3/2500		
BM	(30°-60°)	2305.7	6.7	B2/2500		
BH	(60°-80°)	2286.3	6.7	B3/2500		G3/2500
BVH	(80°-90°)	93.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6
2.5°	7652.0	7682.4	7716.6	7754.7	7826.9	7866.8	7895.4	7927.7	7931.5	7948.6	7935.3
5°	7087.2	7123.3	7174.7	7246.9	7355.3	7524.6	7699.5	7842.1	7859.2	7939.1	7961.9
7.5°	6615.6	6636.5	6678.4	6794.4	6948.4	7136.6	7391.5	7680.5	7722.3	7912.5	7979.0
10°	6231.5	6252.4	6301.8	6421.6	6573.8	6809.6	7089.1	7469.4	7503.6	7830.7	7982.8
12.5°	5944.3	5963.4	6016.6	6134.5	6309.5	6530.0	6838.1	7241.2	7290.7	7722.3	7946.7
15°	5725.7	5761.8	5805.5	5902.5	6087.0	6299.9	6598.5	7032.1	7072.0	7608.2	7922.0
17.5°	5632.5	5649.6	5680.0	5769.4	5904.4	6113.6	6414.0	6868.5	6916.1	7528.4	7916.3
20°	5636.3	5653.4	5659.1	5708.6	5805.5	5986.2	6282.8	6739.2	6796.3	7458.0	7925.8
22.5°	5765.6	5767.5	5746.6	5729.5	5767.5	5917.7	6189.7	6642.2	6708.8	7427.6	7933.4
25°	5965.3	5999.5	5969.1	5889.2	5818.8	5891.1	6153.5	6589.0	6651.7	7383.8	7923.9
27.5°	6288.5	6294.2	6269.5	6161.1	5978.6	5925.3	6138.3	6549.0	6602.3	7351.5	7876.4
30°	6722.1	6705.0	6682.2	6562.4	6275.2	6056.5	6170.6	6512.9	6568.1	7304.0	7819.3
32.5°	7161.4	7214.6	7193.7	7053.0	6680.3	6311.4	6275.2	6509.1	6554.8	7267.8	7756.6
35°	7627.2	7652.0	7750.8	7678.6	7296.4	6724.0	6471.1	6568.1	6604.2	7269.7	7712.8
37.5°	7992.4	8058.9	8290.9	8353.7	7994.3	7269.7	6788.6	6735.4	6750.6	7362.9	7729.9
40°	8433.5	8547.6	8846.2	9102.9	8867.1	7979.0	7328.7	7045.4	7064.4	7587.3	7842.1
42.5°	8992.6	9072.4	9473.7	9821.7	9783.6	8916.5	7982.8	7553.1	7562.6	8034.2	8155.9
45°	9646.7	9760.8	10211.5	10734.4	10823.8	9977.6	8927.9	8321.3	8315.6	8728.3	8741.6
47.5°	10483.4	10553.8	11000.7	11571.1	11932.4	11310.6	10074.6	9424.2	9363.4	9739.9	9631.5
50°	11253.6	11363.9	11702.3	12326.1	13225.5	12871.8	11582.5	10854.2	10711.6	11063.4	10880.9
52.5°	11576.8	11692.8	11978.1	12752.0	14334.1	14891.3	13497.4	12560.0	12322.3	12592.3	12525.7
55°	11015.9	11166.1	11432.3	12373.6	14820.9	17220.7	16079.8	14531.9	14358.8	14242.9	14261.9
57.5°	9507.9	9650.5	10009.9	11048.2	14239.0	18911.2	19766.9	17066.7	16695.9	16161.5	16252.8
60°	7237.4	7326.8	7513.2	8663.6	12514.3	19350.5	23954.2	20270.9	20035.1	18072.6	18137.3
62.5°	5140.0	5240.8	5370.1	5944.3	9161.8	18112.6	27232.6	24745.3	23902.9	20052.2	19989.4
65°	4174.0	4105.5	4261.4	4529.6	5375.8	14037.5	27970.4	30955.9	29795.9	22659.3	21788.3
67.5°	3432.4	3360.1	3514.1	3991.4	4088.4	8148.3	25312.0	34987.2	34755.2	25494.5	23615.8
69°	3038.7	3000.7	3135.7	3679.6	3924.9	5786.5	22050.7	35548.2	35603.3	27166.0	23897.2
70°	2738.3	2753.5	2884.7	3521.7	3850.7	4771.1	18846.6	34774.2	35242.0	28000.8	23592.9
72.5°	2015.7	2048.0	2230.6	2917.0	3780.3	4048.5	11215.5	30374.0	31201.2	28050.2	21583.0
75°	1409.1	1393.9	1555.5	2196.3	3571.2	4012.3	6587.1	23490.2	24427.7	24245.2	18135.4
77.5°	922.3	947.0	1076.3	1551.7	3004.5	3981.9	4293.8	16665.5	17274.0	16214.8	10726.8
80°	650.3	648.4	720.7	1059.2	2228.7	3826.0	3516.0	10504.3	10350.3	6372.2	3181.3
82.5°	372.7	399.3	483.0	745.4	1490.8	3367.7	3234.6	5024.0	4586.6	1816.0	1074.4
85°	207.3	216.8	287.1	450.7	870.9	2536.7	2823.8	2285.7	2156.4	758.7	462.1
87.5°	66.6	72.3	119.8	228.2	395.5	1198.0	1599.2	1055.4	973.6	273.8	186.4
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°	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6	7929.6
2.5°	7941.0	7963.8	7903.0	7844.0	7790.8	7716.6	7650.1	7594.9	7556.9	7551.2	7532.2
5°	7967.6	7969.5	7853.5	7697.6	7545.5	7378.1	7205.1	7081.5	6965.5	6900.8	6868.5
7.5°	7986.6	7969.5	7760.4	7507.4	7214.6	6910.4	6606.1	6362.7	6174.4	6100.3	6128.8
10°	7979.0	7925.8	7619.6	7214.6	6788.6	6334.2	5896.8	5554.5	5240.8	5079.1	5082.9
12.5°	7937.2	7849.7	7410.5	6885.6	6260.0	5651.5	4982.1	4520.1	4156.9	3942.0	3875.4
15°	7901.1	7748.9	7165.2	6438.8	5661.0	4792.0	3976.2	3405.7	3101.5	2932.2	2930.3
17.5°	7863.0	7652.0	6897.0	5965.3	4972.6	3854.5	2998.8	2563.3	2420.7	2437.8	2409.3
20°	7823.1	7537.9	6617.5	5438.5	4134.0	2875.2	2245.8	2068.9	2108.9	2186.8	2198.2
22.5°	7777.5	7416.2	6317.1	4858.5	3251.7	2164.0	1821.7	1795.1	1897.8	2019.5	2036.6
25°	7707.1	7264.0	5938.6	4251.9	2508.2	1743.8	1595.4	1614.4	1715.2	1817.9	1829.3
27.5°	7608.2	7075.8	5556.4	3495.1	1884.5	1496.5	1458.5	1483.2	1532.7	1595.4	1610.6
30°	7475.1	6862.8	5117.2	2841.0	1509.9	1372.9	1357.7	1371.0	1399.6	1426.2	1433.8
32.5°	7342.0	6657.4	4674.1	2175.4	1346.3	1291.2	1276.0	1276.0	1276.0	1279.8	1281.7
35°	7218.4	6463.5	4198.7	1694.3	1260.7	1226.5	1205.6	1182.8	1179.0	1165.7	1165.7
37.5°	7149.9	6286.6	3692.9	1418.6	1198.0	1173.3	1144.8	1106.7	1085.8	1087.7	1083.9
40°	7163.3	6170.6	3232.7	1262.7	1146.7	1120.0	1076.3	1032.6	1019.2	1019.2	1015.4
42.5°	7313.5	6132.6	2791.5	1180.9	1097.2	1066.8	1011.6	971.7	964.1	962.2	966.0
45°	7659.6	6225.8	2396.0	1127.6	1055.4	1009.7	954.6	918.5	910.9	910.9	909.0
47.5°	8334.6	6528.1	2112.7	1093.4	1025.0	966.0	909.0	872.8	859.5	855.7	855.7
50°	9384.3	7184.2	1901.6	1063.0	986.9	926.1	867.1	825.3	804.4	802.5	800.6
52.5°	10842.8	8207.2	1819.8	1040.2	945.1	884.2	819.6	779.6	753.0	747.3	743.5
55°	12548.5	9635.3	1932.0	1023.1	901.4	836.7	770.1	728.3	703.6	692.2	690.3
57.5°	14524.3	11350.5	2358.0	1000.2	861.4	785.4	720.7	678.9	652.2	638.9	635.1
60°	16298.5	13113.3	3101.5	986.9	827.2	730.2	663.7	625.6	600.9	587.6	585.7
62.5°	18247.6	14794.3	3989.5	1023.1	812.0	677.0	610.4	576.2	555.3	542.0	542.0
65°	20329.8	16477.2	4577.1	1144.8	834.8	635.1	553.4	524.8	505.8	496.3	494.4
67.5°	21733.2	17059.1	3770.8	1270.3	891.8	589.5	498.2	475.4	464.0	454.5	454.5
69°	21581.1	16323.2	2782.0	1302.6	909.0	566.7	467.8	450.7	435.5	431.7	427.9
70°	21100.0	15484.6	2331.3	1281.7	895.6	545.8	448.8	427.9	414.5	410.7	408.8
72.5°	18793.3	13429.0	1736.1	1114.3	762.5	473.5	397.4	378.4	367.0	361.3	361.3
75°	15613.9	10975.9	1355.8	886.1	597.1	399.3	340.4	325.2	315.7	311.9	310.0
77.5°	8751.1	6128.8	973.6	694.1	452.6	323.3	285.2	271.9	262.4	258.6	258.6
80°	2437.8	1751.4	572.4	458.3	308.1	245.3	226.3	216.8	203.5	194.0	199.7
82.5°	918.5	758.7	327.1	275.7	195.9	163.5	157.8	150.2	144.5	131.2	131.2
85°	446.9	368.9	209.2	146.4	108.4	85.6	81.8	78.0	74.2	64.7	66.6
87.5°	154.0	163.5	91.3	53.2	32.3	20.9	17.1	9.5	9.5	9.5	9.5
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)