

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: P454460

Luminaire Tested: **GALN-SA5C-750-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454460
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-SA5C-750-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 5000K, 1050mA 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: 35144 lumens
Efficiency: N/A
Efficacy: 130.6 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

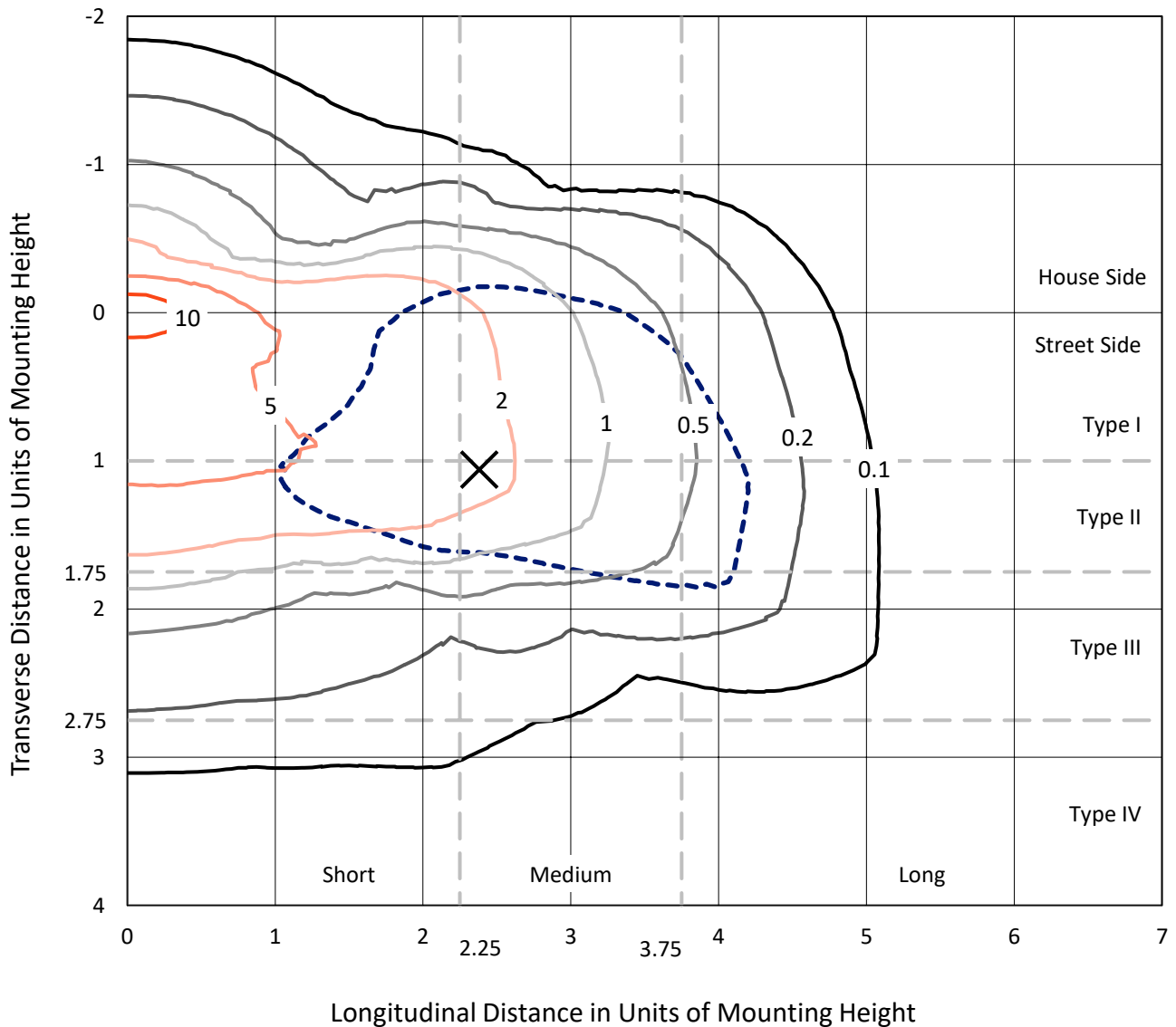
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P454460
 CATALOG NUMBER: GALN-SA5C-750-U-SL2

Iso-Footcandle Lines of Horizontal Illumination

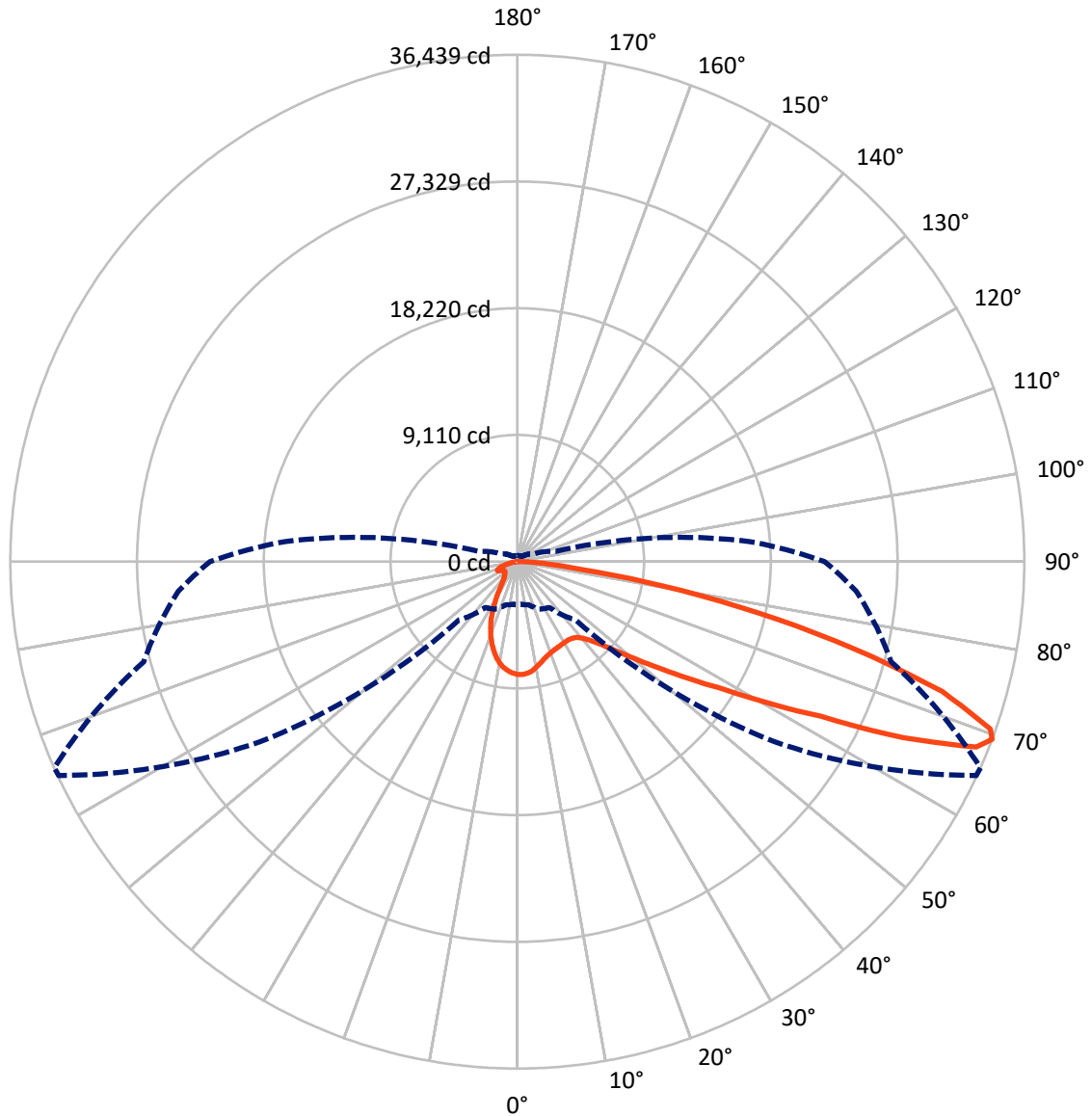
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type III - Medium - N/A

REPORT NUMBER: P454460
CATALOG NUMBER: GALN-SA5C-750-U-SL2

Luminous Intensity Polar Plot



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

REPORT NUMBER: P454460

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6609.3	0.0	6609.3
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	28534.7	0.0	28534.7
	% Fixture	81.2	0.0	81.2
Total	Lumens	35144.0	0.0	35144.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	704.8	2.0
10°-20°	1671.6	4.8
20°-30°	2275.7	6.5
30°-40°	3058.1	8.7
40°-50°	4566.2	13.0
50°-60°	7263.3	20.7
60°-70°	8933.5	25.4
70°-80°	5812.5	16.5
80°-90°	858.3	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°	35144.0	100.0
0°-180°	35144.0	100.0

Coefficient of Utilization



REPORT NUMBER: P454460

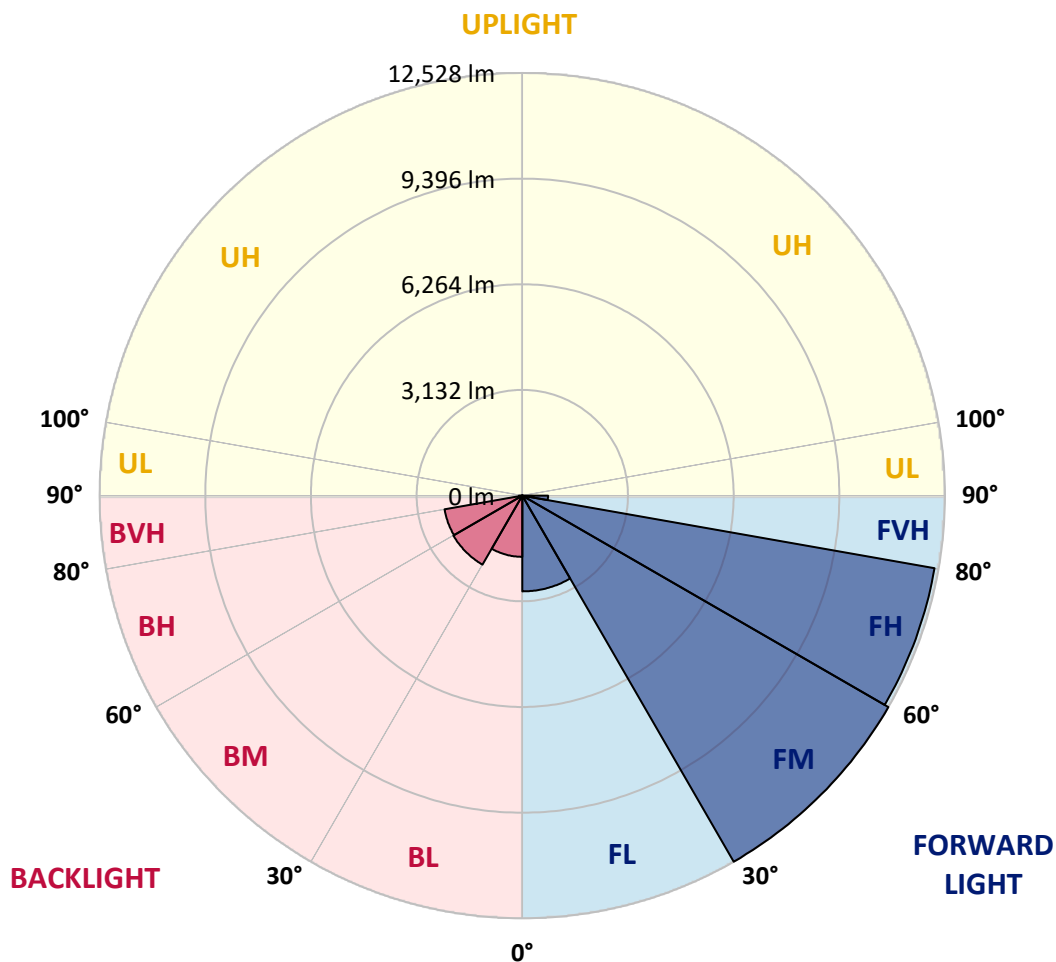
CATALOG NUMBER: GALN-SA5C-750-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2837.8	8.1			
FM	(30°-60°)	12527.8	35.6			
FH	(60°-80°)	12406.0	35.3			G5
FVH	(80°-90°)	763.1	2.2			G5
BL	(0°-30°)	1814.3	5.2	B3/2500		
BM	(30°-60°)	2359.8	6.7	B2/2500		
BH	(60°-80°)	2340.0	6.7	B3/2500		G3/2500
BVH	(80°-90°)	95.2	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





REPORT NUMBER: P454460

CATALOG NUMBER: GALN-SA5C-750-U-SL2

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	8115.7	8115.7	8115.7	8115.7	8115.7	8115.7	8115.7	8115.7	8115.7	8115.7	8115.7
2.5°	7831.6	7862.7	7897.7	7936.7	8010.6	8051.5	8080.7	8113.8	8117.7	8135.2	8121.6
5°	7253.6	7290.5	7343.1	7417.0	7528.0	7701.2	7880.2	8026.2	8043.7	8125.5	8148.8
7.5°	6770.9	6792.3	6835.1	6953.8	7111.5	7304.2	7564.9	7860.8	7903.6	8098.2	8166.3
10°	6377.8	6399.2	6449.8	6572.4	6728.1	6969.4	7255.5	7644.7	7679.8	8014.5	8170.2
12.5°	6083.9	6103.3	6157.8	6278.5	6457.5	6683.3	6998.6	7411.2	7461.8	7903.6	8133.2
15°	5860.1	5897.0	5941.8	6041.1	6229.8	6447.8	6753.4	7197.1	7238.0	7786.8	8107.9
17.5°	5764.7	5782.2	5813.4	5904.8	6043.0	6257.1	6564.6	7029.7	7078.4	7705.1	8102.1
20°	5768.6	5786.1	5791.9	5842.5	5941.8	6126.7	6430.3	6897.4	6955.8	7633.1	8111.8
22.5°	5900.9	5902.9	5881.5	5864.0	5902.9	6056.6	6334.9	6798.1	6866.3	7601.9	8119.6
25°	6105.3	6140.3	6109.2	6027.4	5955.4	6029.4	6298.0	6743.6	6807.9	7557.2	8109.9
27.5°	6436.1	6442.0	6416.7	6305.7	6118.9	6064.4	6282.4	6702.8	6757.3	7524.1	8061.2
30°	6879.9	6862.4	6839.0	6716.4	6422.5	6198.7	6315.5	6665.8	6722.2	7475.4	8002.8
32.5°	7329.5	7383.9	7362.5	7218.5	6837.1	6459.5	6422.5	6661.9	6708.6	7438.4	7938.6
35°	7806.3	7831.6	7932.8	7858.8	7467.6	6881.8	6623.0	6722.2	6759.2	7440.4	7893.9
37.5°	8180.0	8248.1	8485.5	8549.7	8181.9	7440.4	6948.0	6893.5	6909.1	7535.8	7911.4
40°	8631.5	8748.2	9053.8	9316.5	9075.2	8166.3	7500.7	7210.7	7230.2	7765.4	8026.2
42.5°	9203.7	9285.4	9696.1	10052.2	10013.3	9125.8	8170.2	7730.4	7740.1	8222.8	8347.3
45°	9873.2	9989.9	10451.2	10986.4	11077.9	10211.8	9137.5	8516.6	8510.8	8933.1	8946.8
47.5°	10729.5	10801.5	11258.9	11842.7	12212.5	11576.1	10311.1	9645.5	9583.2	9968.5	9857.6
50°	11517.7	11630.6	11977.0	12615.4	13535.9	13173.9	11854.4	11109.0	10963.0	11323.1	11136.3
52.5°	11848.6	11967.3	12259.2	13051.3	14670.6	15240.8	13814.3	12854.8	12611.5	12887.9	12819.7
55°	11274.4	11428.2	11700.7	12664.0	15168.8	17624.9	16457.2	14873.0	14695.9	14577.2	14596.6
57.5°	9731.1	9877.1	10244.9	11307.5	14573.3	19355.1	20230.9	17467.3	17087.8	16540.9	16634.3
60°	7407.3	7498.8	7689.5	8867.0	12808.1	19804.7	24516.5	20746.7	20505.3	18496.8	18563.0
62.5°	5260.6	5363.8	5496.1	6083.9	9376.9	18537.7	27871.8	25326.1	24464.0	20522.9	20458.6
65°	4271.9	4201.9	4361.5	4635.9	5502.0	14367.0	28626.9	31682.5	30495.3	23191.1	22299.8
67.5°	3512.9	3439.0	3596.6	4085.1	4184.4	8339.5	25906.1	35808.5	35571.0	26092.9	24170.1
69°	3110.1	3071.1	3209.3	3765.9	4017.0	5922.3	22568.3	36382.6	36439.0	27803.7	24458.1
70°	2802.6	2818.1	2952.4	3604.4	3941.1	4883.1	19289.0	35590.5	36069.2	28658.0	24146.7
72.5°	2063.0	2096.1	2282.9	2985.5	3869.1	4143.5	11478.8	31086.9	31933.5	28708.7	22089.6
75°	1442.1	1426.6	1592.0	2247.9	3655.0	4106.5	6741.7	24041.6	25001.1	24814.3	18561.1
77.5°	943.9	969.2	1101.6	1588.1	3075.0	4075.4	4394.6	17056.6	17679.4	16595.4	10978.6
80°	665.6	663.7	737.6	1084.0	2281.0	3915.8	3598.6	10750.9	10593.3	6521.8	3256.0
82.5°	381.5	408.7	494.3	762.9	1525.8	3446.8	3310.5	5141.9	4694.3	1858.6	1099.6
85°	212.1	221.9	293.9	461.3	891.4	2596.3	2890.1	2339.4	2207.0	776.5	472.9
87.5°	68.1	74.0	122.6	233.5	404.8	1226.1	1636.8	1080.2	996.5	280.3	190.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P454460

CATALOG NUMBER: GALN-SA5C-750-U-SL2

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	8115.7	8115.7	8115.7	8115.7	8115.7	8115.7	8115.7	8115.7	8115.7	8115.7	8115.7
2.5°	8127.4	8150.8	8088.5	8028.1	7973.7	7897.7	7829.6	7773.2	7734.3	7728.4	7709.0
5°	8154.7	8156.6	8037.9	7878.3	7722.6	7551.3	7374.2	7247.7	7129.0	7062.8	7029.7
7.5°	8174.1	8156.6	7942.5	7683.7	7383.9	7072.6	6761.2	6512.0	6319.4	6243.5	6272.7
10°	8166.3	8111.8	7798.5	7383.9	6948.0	6482.8	6035.2	5684.9	5363.8	5198.3	5202.2
12.5°	8123.5	8034.0	7584.4	7047.3	6406.9	5784.2	5099.1	4626.2	4254.4	4034.5	3966.4
15°	8086.5	7930.8	7333.3	6589.9	5793.9	4904.5	4069.5	3485.7	3174.3	3001.1	2999.1
17.5°	8047.6	7831.6	7058.9	6105.3	5089.4	3945.0	3069.2	2623.5	2477.5	2495.1	2465.9
20°	8006.7	7714.8	6772.8	5566.2	4231.1	2942.7	2298.5	2117.5	2158.4	2238.1	2249.8
22.5°	7960.0	7590.2	6465.3	4972.6	3328.0	2214.8	1864.5	1837.2	1942.3	2066.9	2084.4
25°	7888.0	7434.6	6078.0	4351.7	2567.1	1784.7	1632.9	1652.3	1755.5	1860.6	1872.3
27.5°	7786.8	7241.9	5686.8	3577.1	1928.7	1531.7	1492.7	1518.0	1568.7	1632.9	1648.4
30°	7650.6	7023.9	5237.3	2907.6	1545.3	1405.2	1389.6	1403.2	1432.4	1459.7	1467.4
32.5°	7514.3	6813.7	4783.8	2226.5	1377.9	1321.5	1305.9	1305.9	1305.9	1309.8	1311.8
35°	7387.8	6615.2	4297.2	1734.1	1290.3	1255.3	1233.9	1210.5	1206.7	1193.0	1193.0
37.5°	7317.8	6434.2	3779.6	1451.9	1226.1	1200.8	1171.6	1132.7	1111.3	1113.2	1109.3
40°	7331.4	6315.5	3308.6	1292.3	1173.6	1146.3	1101.6	1056.8	1043.2	1043.2	1039.3
42.5°	7485.2	6276.6	2857.0	1208.6	1123.0	1091.8	1035.4	994.5	986.7	984.8	988.7
45°	7839.4	6371.9	2452.2	1154.1	1080.2	1033.4	977.0	940.0	932.2	932.2	930.3
47.5°	8530.3	6681.4	2162.2	1119.1	1049.0	988.7	930.3	893.3	879.7	875.8	875.8
50°	9604.6	7352.8	1946.2	1087.9	1010.1	947.8	887.5	844.7	823.2	821.3	819.4
52.5°	11097.3	8399.9	1862.5	1064.6	967.3	905.0	838.8	797.9	770.7	764.9	761.0
55°	12843.1	9861.5	1977.4	1047.1	922.5	856.3	788.2	745.4	720.1	708.4	706.5
57.5°	14865.2	11617.0	2413.3	1023.7	881.6	803.8	737.6	694.8	667.6	653.9	650.0
60°	16681.0	13421.1	3174.3	1010.1	846.6	747.3	679.2	640.3	615.0	601.4	599.4
62.5°	18675.9	15141.6	4083.2	1047.1	831.0	692.9	624.7	589.7	568.3	554.7	554.7
65°	20807.0	16864.0	4684.5	1171.6	854.4	650.0	566.3	537.2	517.7	508.0	506.0
67.5°	22243.3	17459.5	3859.3	1300.1	912.8	603.3	509.9	486.6	474.9	465.1	465.1
69°	22087.6	16706.3	2847.3	1333.2	930.3	580.0	478.8	461.3	445.7	441.8	437.9
70°	21595.2	15848.0	2386.1	1311.8	916.7	558.6	459.3	437.9	424.3	420.4	418.4
72.5°	19234.5	13744.2	1776.9	1140.5	780.4	484.6	406.8	387.3	375.6	369.8	369.8
75°	15980.4	11233.6	1387.7	906.9	611.1	408.7	348.4	332.8	323.1	319.2	317.2
77.5°	8956.5	6272.7	996.5	710.4	463.2	330.9	291.9	278.3	268.6	264.7	264.7
80°	2495.1	1792.5	585.8	469.0	315.3	251.1	231.6	221.9	208.2	198.5	204.4
82.5°	940.0	776.5	334.7	282.2	200.5	167.4	161.5	153.8	147.9	134.3	134.3
85°	457.4	377.6	214.1	149.9	110.9	87.6	83.7	79.8	75.9	66.2	68.1
87.5°	157.6	167.4	93.4	54.5	33.1	21.4	17.5	9.7	9.7	9.7	9.7
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)