

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: P532431

Luminaire Tested: **GALN-SA7D-735-U-T3R-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532431
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-11)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7D-735-U-T3R-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30526 lumens
Efficiency: N/A
Efficacy: 70.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

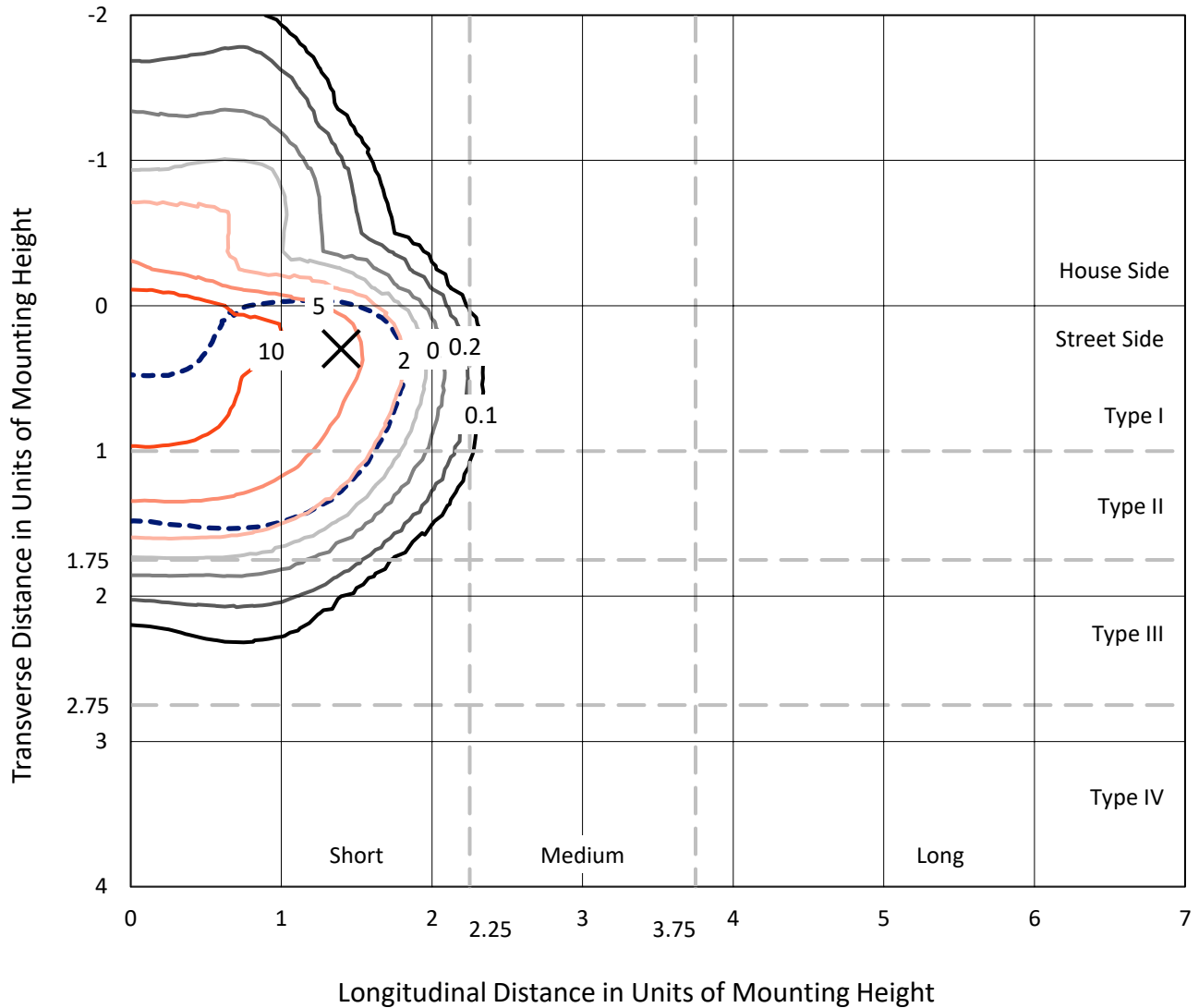
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532431
 CATALOG NUMBER: GALN-SA7D-735-U-T3R-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

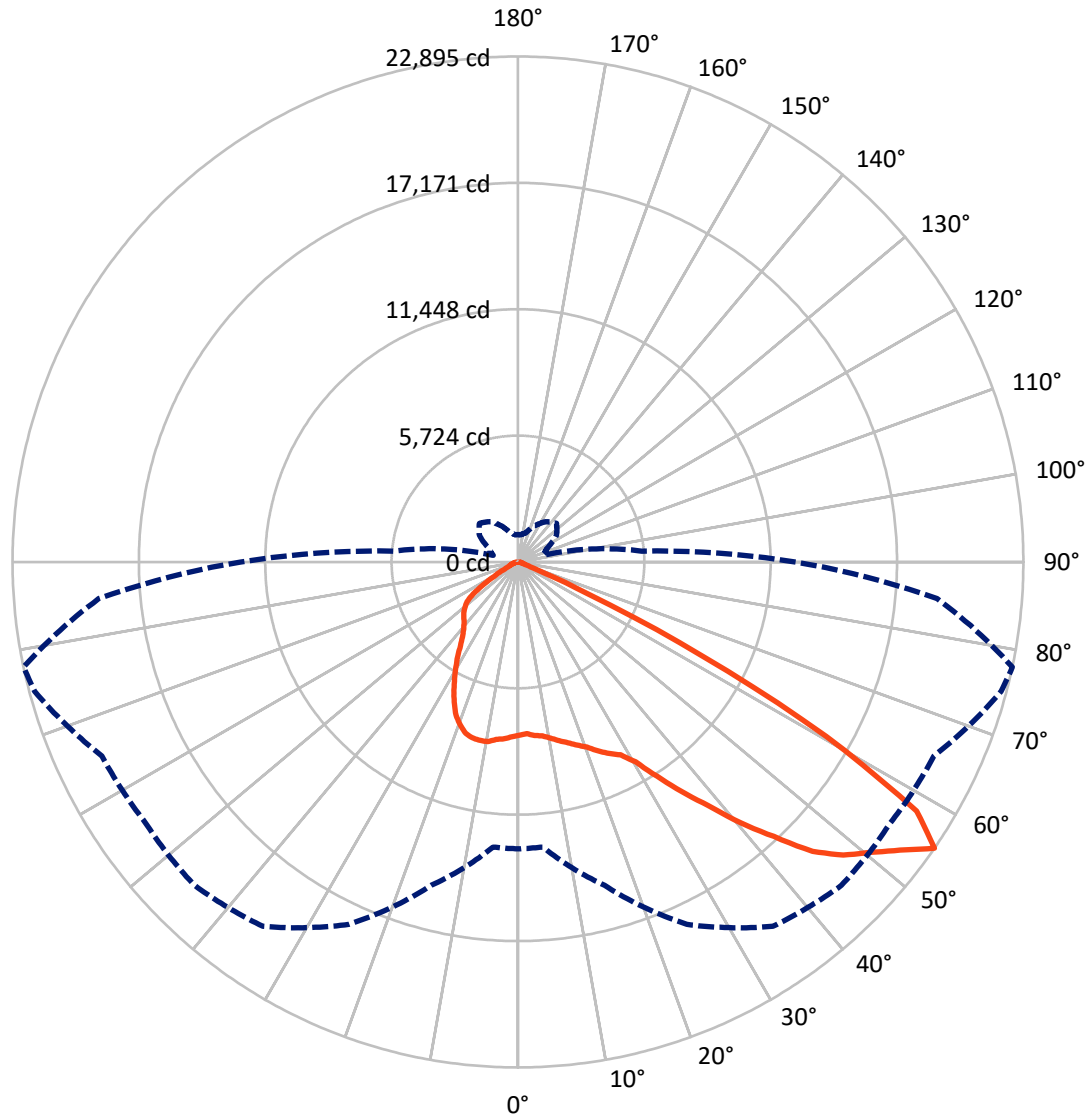
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type II - Short - N/A

REPORT NUMBER: P532431
CATALOG NUMBER: GALN-SA7D-735-U-T3R-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

REPORT NUMBER: P532431

CATALOG NUMBER: GALN-SA7D-735-U-T3R-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5669.9	0.0	5669.9
	% Fixture	18.6	0.0	18.6
Street Side	Lumens	24856.1	0.0	24856.1
	% Fixture	81.4	0.0	81.4
Total	Lumens	30526.0	0.0	30526.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	699.8	2.3
10°-20°	1852.1	6.1
20°-30°	3246.4	10.6
30°-40°	5352.8	17.5
40°-50°	7789.0	25.5
50°-60°	8825.8	28.9
60°-70°	2523.4	8.3
70°-80°	195.9	0.6
80°-90°	40.8	0.1
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°	30526.0	100.0
0°-180°	30526.0	100.0

Coefficient of Utilization



REPORT NUMBER: P532431

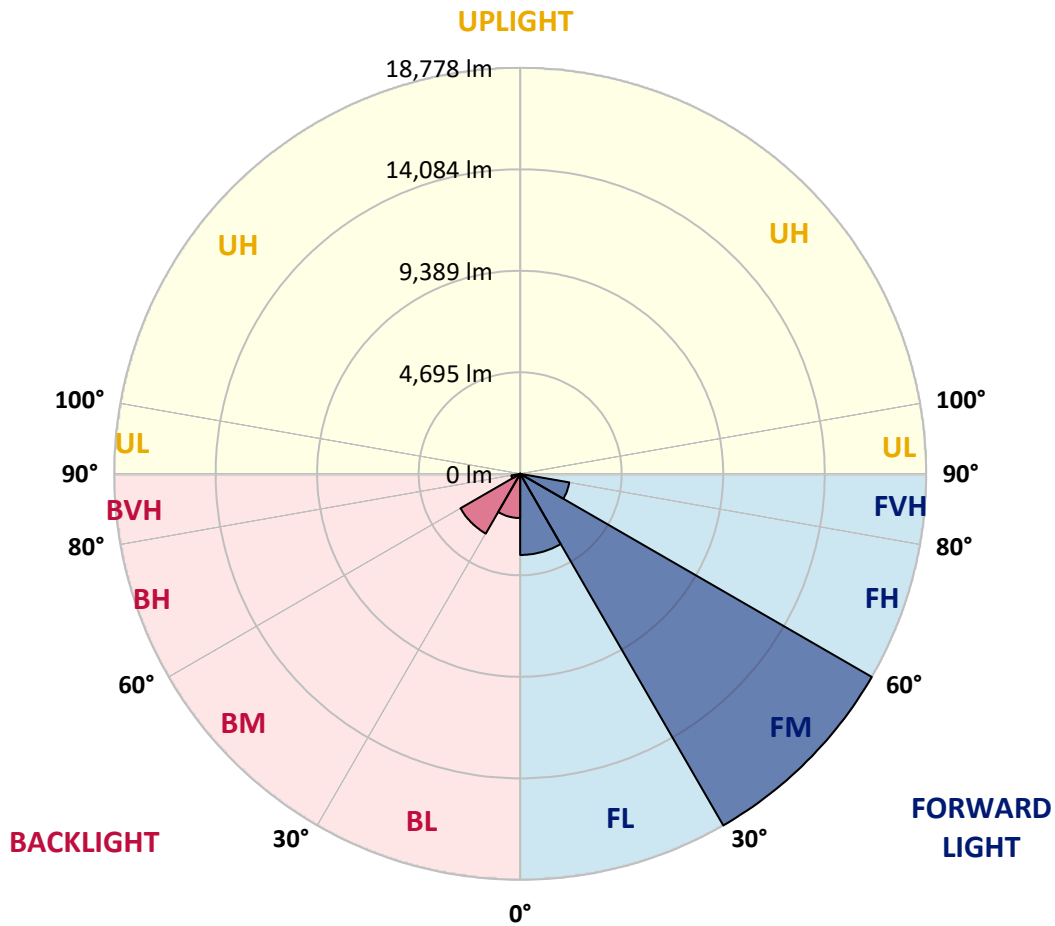
CATALOG NUMBER: GALN-SA7D-735-U-T3R-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3752.5	12.3			
FM (30°-60°)	18778.2	61.5			
FH (60°-80°)	2305.5	7.6			G2/5000
FVH (80°-90°)	19.8	0.1			G1/100
BL (0°-30°)	2045.7	6.7	B3/2500		
BM (30°-60°)	3189.4	10.4	B3/5000		
BH (60°-80°)	413.9	1.4	B1/500		G1/500
BVH (80°-90°)	20.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





REPORT NUMBER: P532431

CATALOG NUMBER: GALN-SA7D-735-U-T3R-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	7848.3	7848.3	7848.3	7848.3	7848.3	7848.3	7848.3	7848.3	7848.3	7848.3	7848.3
2.5°	7378.9	7449.8	7460.8	7548.1	7542.6	7690.0	7733.6	7739.1	7837.3	7788.2	7913.7
5°	7171.5	7133.3	7116.9	7269.7	7313.4	7444.4	7553.5	7619.0	7821.0	7891.9	8022.9
7.5°	6985.9	6985.9	6996.8	7133.3	7116.9	7286.1	7400.7	7602.7	7897.4	7957.4	8115.7
10°	6805.8	6740.3	6822.2	6964.1	7084.2	7160.6	7400.7	7591.7	7935.6	8110.2	8328.5
12.5°	6713.0	6745.8	6756.7	6860.4	6991.4	7220.6	7351.6	7668.1	8208.5	8312.2	8546.8
15°	7297.0	7231.5	7073.3	6980.5	7089.6	7198.8	7526.2	7848.3	8350.4	8497.7	8759.7
17.5°	7973.8	7919.2	7788.2	7537.2	7291.6	7493.5	7750.0	8044.7	8503.2	8721.5	9109.0
20°	8857.9	8770.6	8639.6	8148.4	7935.6	7717.3	7990.2	8339.5	8754.2	8950.7	9349.1
22.5°	9911.3	9911.3	9616.6	9021.7	8579.6	8372.2	8486.8	8688.7	9032.6	9300.0	9693.0
25°	11008.3	10975.5	10708.1	10091.4	9343.7	9098.1	9229.1	9371.0	9463.7	9611.1	9873.1
27.5°	12263.6	12072.6	11734.2	11052.0	10391.6	9916.7	10058.6	9933.1	9818.5	9894.9	10271.5
30°	13115.0	13235.1	12803.9	12149.0	11526.8	10997.4	11024.7	10915.5	10391.6	10500.7	10724.5
32.5°	13999.1	14075.6	13835.4	13475.2	12853.0	12236.3	12012.5	11919.7	11526.8	11575.9	11357.6
35°	14735.9	14883.3	14670.4	14512.2	14332.1	13835.4	13218.7	13518.9	12885.8	12765.7	12198.1
37.5°	15412.7	15369.0	15620.1	15456.4	15418.2	15068.9	14392.1	14452.1	14026.4	13999.1	13344.2
40°	16018.5	16029.4	16373.3	16449.7	16296.9	15674.7	14692.3	15167.1	15510.9	15543.7	14703.2
42.5°	16520.6	16668.0	16962.7	17579.4	17350.2	16313.2	15003.4	15521.9	16799.0	17000.9	15991.2
45°	16957.2	17257.4	17623.1	18174.3	18043.3	17219.2	15778.4	16253.2	18174.3	18703.7	17202.8
47.5°	16984.5	17377.5	17775.9	18594.6	18758.3	17705.0	16580.7	17410.2	19265.9	19838.9	18087.0
50°	16875.4	17082.8	17879.6	18769.2	19140.3	18496.3	17705.0	18381.7	20324.7	20684.9	18534.5
52.5°	15581.9	15740.2	17339.3	18933.0	19828.0	19391.4	19194.9	19735.2	21405.3	21672.7	18954.8
55°	12989.5	12962.2	15161.6	18108.8	20144.6	20717.6	20597.6	20788.6	22655.1	22895.3	19058.5
57.5°	8885.2	9381.9	11281.2	15079.8	18207.1	20406.5	20532.1	20215.5	21197.9	21290.7	16613.4
60°	4791.9	4999.3	6527.5	10064.1	13862.7	16629.8	16957.2	16384.2	16307.8	16045.8	11859.7
62.5°	1904.8	2008.5	2876.2	4982.9	7553.5	10107.8	10811.8	10577.1	10075.0	9387.3	6140.0
65°	906.0	971.5	1429.9	2330.5	3351.1	4213.4	4917.4	5135.7	3787.7	3411.1	2024.8
67.5°	616.7	665.8	1042.4	1331.7	1195.2	1249.8	1626.4	1511.8	889.6	758.6	562.1
70°	469.4	502.1	835.0	906.0	534.9	376.6	420.2	393.0	365.7	371.1	365.7
72.5°	332.9	360.2	611.3	534.9	234.7	174.6	223.8	267.4	267.4	267.4	262.0
75°	201.9	229.2	354.8	207.4	92.8	92.8	141.9	180.1	191.0	196.5	185.6
77.5°	103.7	131.0	120.1	60.0	60.0	71.0	103.7	125.5	136.4	136.4	131.0
80°	21.8	21.8	21.8	32.7	60.0	76.4	103.7	114.6	131.0	131.0	120.1
82.5°	0.0	5.5	16.4	32.7	54.6	71.0	98.2	114.6	131.0	136.4	125.5
85°	0.0	5.5	10.9	21.8	38.2	43.7	38.2	32.7	32.7	32.7	32.7
87.5°	0.0	0.0	5.5	5.5	5.5	10.9	10.9	10.9	10.9	10.9	10.9
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: P532431

CATALOG NUMBER: GALN-SA7D-735-U-T3R-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7848.3	7848.3	7848.3	7848.3	7848.3	7848.3	7848.3	7848.3	7848.3	7848.3	7848.3
2.5°	7924.7	7941.0	7913.7	7908.3	7886.5	7951.9	7793.7	7755.5	7853.7	7760.9	7782.8
5°	8028.4	8066.6	8017.4	7935.6	7815.5	7629.9	7471.7	7264.3	7166.0	7095.1	7084.2
7.5°	8104.8	8132.1	8082.9	7821.0	7460.8	6991.4	6642.1	6385.6	6183.6	6123.6	6025.4
10°	8415.9	8421.3	8175.7	7597.2	6893.1	6276.4	5741.6	5348.6	5146.7	5021.1	4966.6
12.5°	8623.3	8612.3	8115.7	7155.1	6216.4	5397.7	4786.5	4311.6	4126.1	4066.0	4027.8
15°	8885.2	8825.2	7973.8	6702.1	5343.1	4459.0	3907.8	3580.3	3563.9	3525.7	3563.9
17.5°	9092.6	8923.4	7766.4	5878.0	4508.1	3673.1	3312.9	3334.7	3378.4	3416.6	3422.0
20°	9431.0	9081.7	7291.6	5157.6	3733.1	3149.1	3143.7	3241.9	3351.1	3394.7	3438.4
22.5°	9687.5	9147.2	6784.0	4388.0	3100.0	2936.3	3029.1	3176.4	3258.3	3301.9	3367.4
25°	9780.3	8967.1	6107.2	3618.5	2794.4	2838.0	2979.9	3078.2	3181.9	3231.0	3203.7
27.5°	9873.1	8874.3	5299.5	2979.9	2630.6	2772.5	2892.6	2990.9	3023.6	3089.1	3132.8
30°	10096.8	8552.3	4573.6	2576.1	2548.8	2728.9	2816.2	2848.9	2936.3	2974.5	2974.5
32.5°	10277.0	8426.8	3804.1	2385.0	2537.9	2750.7	2761.6	2761.6	2772.5	2745.3	2734.3
35°	10648.1	7995.6	3116.4	2270.4	2532.4	2756.2	2783.5	2690.7	2439.6	2341.4	2314.1
37.5°	11106.5	7717.3	2608.8	2243.1	2570.6	2821.7	2865.3	2516.0	2188.6	2030.3	2003.0
40°	11663.2	7520.8	2275.9	2232.2	2657.9	2974.5	2843.5	2379.6	1953.9	1724.7	1713.7
42.5°	12312.7	7340.7	2052.1	2226.8	2767.1	3132.8	2821.7	2265.0	1713.7	1560.9	1582.7
45°	12831.2	7242.4	1899.3	2188.6	2805.3	3225.5	2838.0	2063.0	1615.5	1517.3	1528.2
47.5°	13235.1	7035.0	1773.8	2123.1	2799.8	3258.3	2690.7	1981.2	1566.4	1593.7	1621.0
50°	13246.0	6756.7	1615.5	1981.2	2718.0	3198.2	2521.5	1904.8	1555.5	1670.1	1724.7
52.5°	13098.6	6363.7	1446.3	1779.2	2526.9	2990.9	2368.7	1872.0	1506.3	1495.4	1560.9
55°	12574.7	5626.9	1162.5	1440.8	2134.0	2466.9	2232.2	1812.0	1359.0	1233.5	1244.4
57.5°	10162.3	4033.3	856.9	1031.5	1511.8	1806.5	2013.9	1784.7	1222.5	1047.9	1053.3
60°	6292.8	2286.8	627.6	704.1	933.3	1097.0	1631.9	1659.2	1091.6	884.2	873.2
62.5°	3231.0	1129.8	485.7	496.7	573.1	644.0	1118.8	1391.7	987.9	840.5	840.5
65°	1080.6	556.7	425.7	382.0	382.0	398.4	676.8	966.0	835.0	704.1	704.1
67.5°	463.9	414.8	371.1	332.9	305.6	289.3	382.0	562.1	622.2	534.9	513.0
70°	360.2	349.3	322.0	278.3	240.1	218.3	223.8	289.3	354.8	343.8	332.9
72.5°	267.4	267.4	256.5	218.3	185.6	158.3	147.4	152.8	169.2	174.6	180.1
75°	185.6	191.0	191.0	169.2	136.4	114.6	98.2	81.9	65.5	54.6	49.1
77.5°	125.5	131.0	141.9	125.5	103.7	76.4	60.0	43.7	27.3	10.9	10.9
80°	109.2	125.5	136.4	125.5	109.2	81.9	60.0	32.7	16.4	0.0	0.0
82.5°	114.6	125.5	141.9	120.1	103.7	76.4	60.0	38.2	16.4	5.5	0.0
85°	27.3	27.3	32.7	38.2	49.1	54.6	43.7	27.3	16.4	5.5	0.0
87.5°	10.9	10.9	10.9	10.9	10.9	5.5	5.5	5.5	5.5	0.0	0.0
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)