

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: P532417

Luminaire Tested: **GALN-SA7D-735-U-SL2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P532417
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)
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-SL2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29298 lumens
Efficiency: N/A
Efficacy: 67.7 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

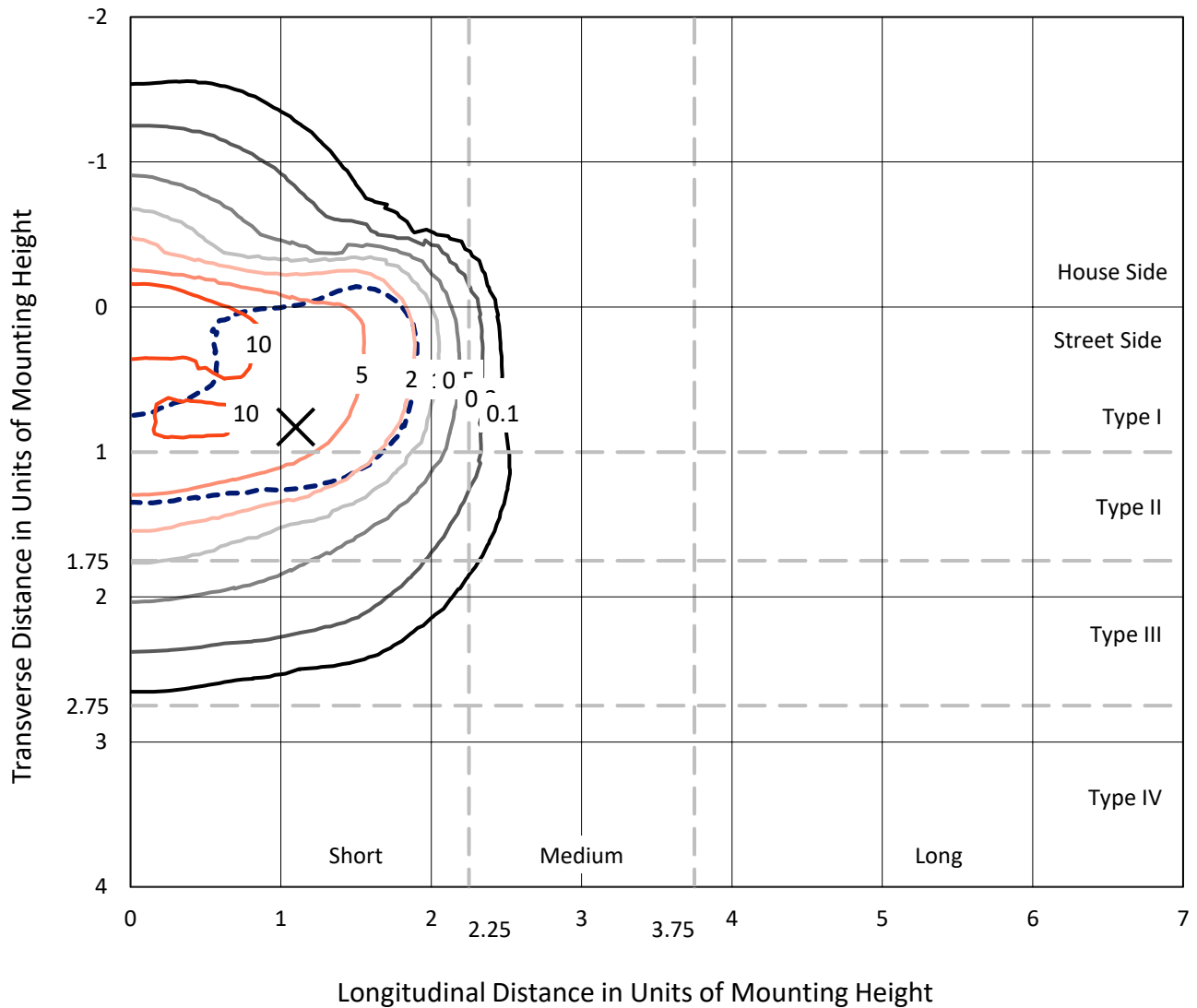
Input Watts (W): 433
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P532417
 CATALOG NUMBER: GALN-SA7D-735-U-SL2-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

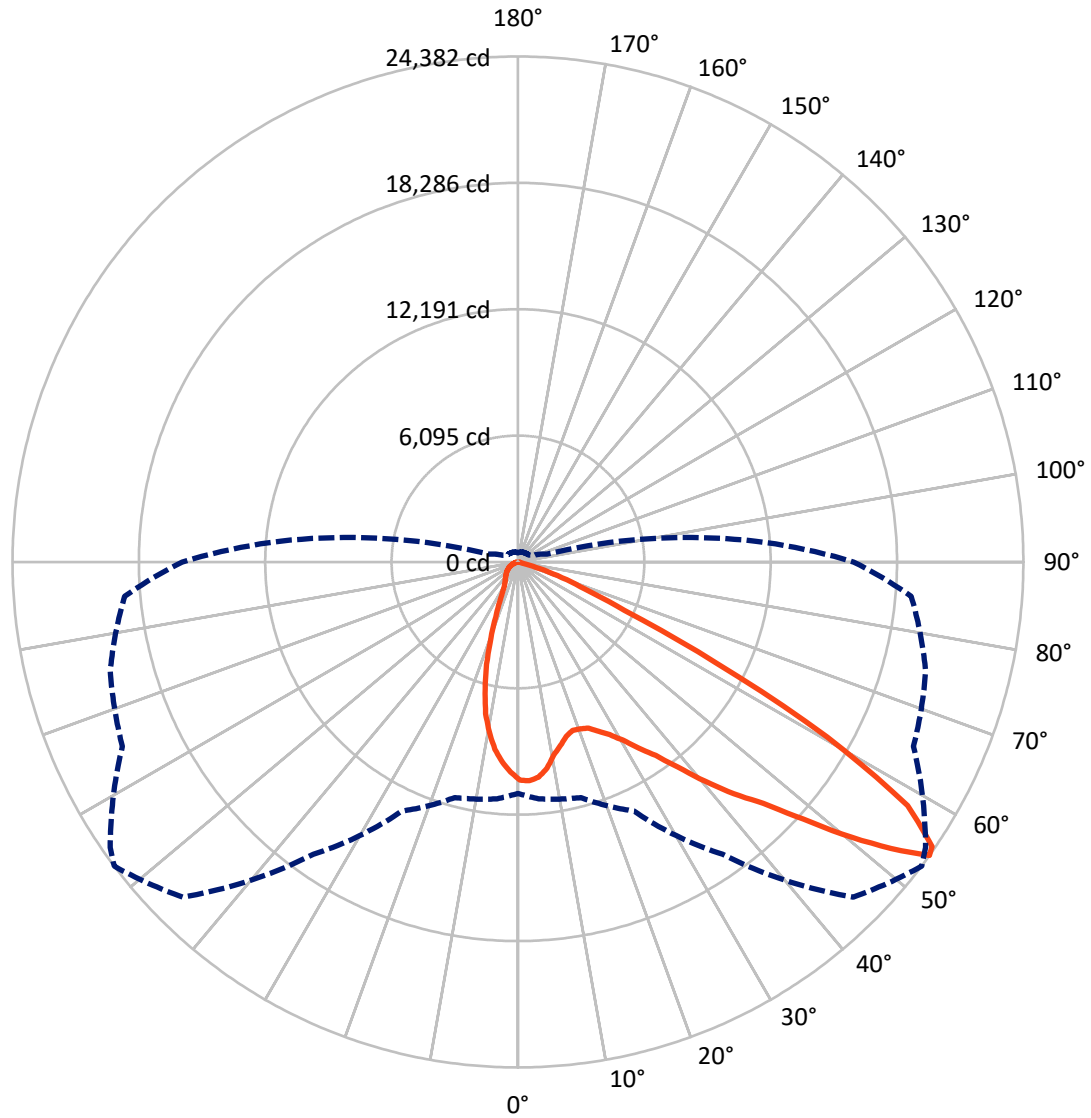
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.8 fc
 Type II - Short - N/A

REPORT NUMBER: P532417
CATALOG NUMBER: GALN-SA7D-735-U-SL2-GRSBK

Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

REPORT NUMBER: P532417
 CATALOG NUMBER: GALN-SA7D-735-U-SL2-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4847.4	0.0	4847.4
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	24450.6	0.0	24450.6
	% Fixture	83.5	0.0	83.5
Total	Lumens	29298.0	0.0	29298.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	902.9	3.1
10°-20°	2070.0	7.1
20°-30°	2941.9	10.0
30°-40°	4540.2	15.5
40°-50°	7118.6	24.3
50°-60°	8269.2	28.2
60°-70°	3124.6	10.7
70°-80°	297.1	1.0
80°-90°	33.4	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°	29298.0	100.0
0°-180°	29298.0	100.0

Coefficient of Utilization

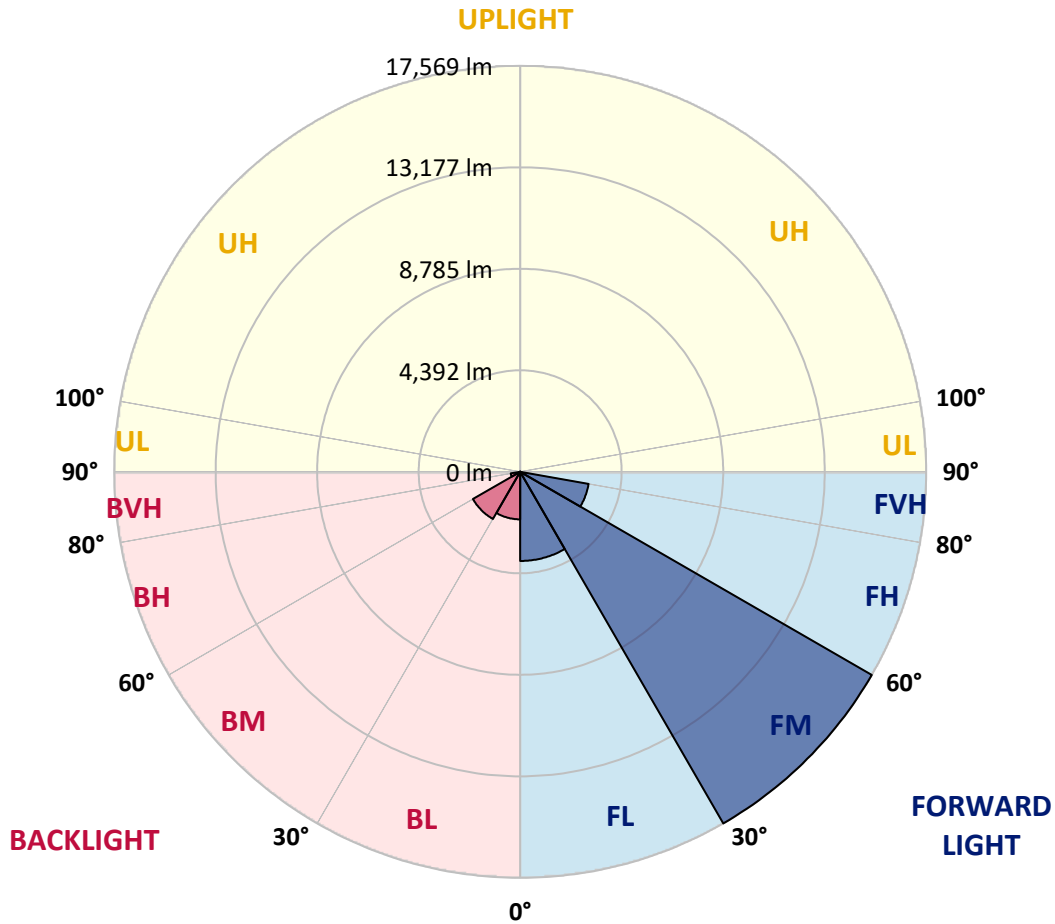


REPORT NUMBER: P532417
 CATALOG NUMBER: GALN-SA7D-735-U-SL2-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3857.8	13.2			
FM (30°-60°)	17569.1	60.0			
FH (60°-80°)	3006.4	10.3			G2/5000
FVH (80°-90°)	17.3	0.1			G1/100
BL (0°-30°)	2057.0	7.0	B3/2500		
BM (30°-60°)	2358.9	8.1	B2/2500		
BH (60°-80°)	415.3	1.4	B1/500		G1/500
BVH (80°-90°)	16.2	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: P532417

CATALOG NUMBER: GALN-SA7D-735-U-SL2-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	53°	55°	65°	75°	85°
0°	10523.3	10523.3	10523.3	10523.3	10523.3	10523.3	10523.3	10523.3	10523.3	10523.3	10523.3
2.5°	10468.8	10376.0	10468.8	10479.7	10545.2	10605.2	10567.0	10654.3	10605.2	10550.6	10534.3
5°	9622.7	9748.3	9753.7	9950.2	9906.6	10266.8	10425.1	10381.4	10648.9	10632.5	10594.3
7.5°	8864.1	8814.9	8880.4	9109.7	9399.0	9813.8	10043.0	10037.6	10419.6	10692.6	10665.3
10°	8160.0	8154.5	8291.0	8471.1	8716.7	9153.3	9469.9	9628.2	10223.1	10638.0	10698.0
12.5°	7685.1	7663.3	7810.6	7958.0	8345.5	8683.9	9087.8	9164.3	9846.5	10446.9	10545.2
15°	7374.0	7423.1	7434.0	7717.8	7963.5	8411.0	8727.6	8885.9	9671.9	10294.1	10670.7
17.5°	7319.4	7384.9	7390.4	7625.1	7887.1	8263.7	8542.0	8754.9	9524.5	10370.5	10676.2
20°	7428.6	7390.4	7423.1	7570.5	7827.0	8187.3	8591.2	8662.1	9475.4	10408.7	10736.2
22.5°	7739.7	7728.8	7646.9	7767.0	7947.1	8323.7	8705.8	8814.9	9617.3	10605.2	10785.3
25°	8083.5	8143.6	8067.2	8050.8	8176.3	8547.5	9055.1	9197.0	10092.2	10960.0	10938.2
27.5°	8727.6	8667.6	8667.6	8591.2	8558.4	8738.5	9431.7	9666.4	10621.6	11418.5	11112.8
30°	9344.4	9409.9	9360.8	9388.0	9169.7	9153.3	9966.6	10255.9	11560.4	12117.1	11484.0
32.5°	10321.4	10234.1	10315.9	10245.0	9955.7	9661.0	10692.6	10992.8	12695.7	12919.5	12040.7
35°	11134.7	11096.5	11445.8	11434.9	10965.5	10676.2	11462.2	11909.7	13487.1	13880.1	12695.7
37.5°	12291.8	12220.8	12619.3	12810.3	12390.0	11958.8	12564.7	13083.2	14224.0	14649.7	13367.1
40°	13481.7	13661.8	14196.7	14513.3	14065.7	13492.6	13912.9	14071.2	14715.2	15151.9	13825.5
42.5°	14988.1	15250.1	15795.9	16068.8	16030.6	15408.4	15282.9	15277.4	15070.0	15010.0	14163.9
45°	16434.5	16336.3	17176.9	17771.8	18252.1	18072.0	16603.7	16440.0	15632.2	15222.8	14251.3
47.5°	17067.7	17034.9	17608.0	18666.9	20304.4	20528.2	18525.0	17891.9	16581.9	16118.0	14726.1
50°	16249.0	16418.2	16985.8	18159.3	20670.1	22378.5	20883.0	20031.5	17689.9	17209.6	15850.5
52.5°	13574.5	13689.1	14229.4	15719.5	19425.6	23470.1	23142.6	22651.4	19725.8	18928.9	17810.0
54°	11162.0	11467.6	11762.4	13257.9	17209.6	22864.3	24381.6	24005.0	21052.2	20359.0	19043.5
55°	9721.0	9901.1	10114.0	11604.1	15675.9	21838.1	24239.7	24272.5	21941.8	20806.5	19873.2
57.5°	7101.1	7226.6	7008.3	7668.7	10763.5	17733.6	22171.1	23055.3	23142.6	21477.9	20380.8
60°	5425.4	5480.0	5234.4	5338.1	6691.7	12171.7	17149.6	18213.9	20877.5	18770.6	17264.2
62.5°	4208.2	4219.2	4213.7	4393.8	4612.2	7161.1	10725.3	11669.6	14393.2	13328.8	11724.1
65°	3100.2	3051.1	3138.4	3684.3	3935.3	4503.0	5649.2	6336.9	7821.6	6604.4	4721.3
67.5°	2008.6	2025.0	2112.3	2740.0	3373.1	3455.0	3476.9	3422.3	3427.7	1888.5	1184.4
70°	1206.3	1233.5	1206.3	1550.1	2412.5	2478.0	2265.1	2210.6	1724.8	447.6	442.1
72.5°	715.0	676.8	605.9	665.9	1004.3	1200.8	1080.7	1075.3	676.8	262.0	262.0
75°	300.2	272.9	223.8	202.0	267.5	256.5	256.5	229.2	180.1	174.7	163.7
77.5°	60.0	60.0	43.7	49.1	65.5	76.4	92.8	92.8	109.2	109.2	103.7
80°	0.0	5.5	16.4	32.7	49.1	71.0	81.9	81.9	92.8	92.8	76.4
82.5°	0.0	5.5	16.4	32.7	43.7	65.5	81.9	81.9	92.8	98.2	81.9
85°	0.0	5.5	16.4	27.3	43.7	54.6	54.6	49.1	38.2	32.7	21.8
87.5°	0.0	0.0	5.5	10.9	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: P532417

CATALOG NUMBER: GALN-SA7D-735-U-SL2-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	10523.3	10523.3	10523.3	10523.3	10523.3	10523.3	10523.3	10523.3	10523.3	10523.3	10523.3
2.5°	10572.5	10567.0	10436.0	10223.1	10174.0	9993.9	9972.1	9862.9	9922.9	9721.0	9699.2
5°	10485.1	10419.6	10261.4	10124.9	9726.5	9442.6	9218.8	8945.9	8787.7	8814.9	8711.2
7.5°	10610.7	10441.5	10163.1	9688.2	9202.5	8705.8	8438.3	7881.6	7679.6	7379.4	7335.8
10°	10479.7	10354.1	9922.9	9137.0	8465.6	7750.6	7122.9	6506.1	6036.7	5834.8	5791.1
12.5°	10468.8	10250.4	9530.0	8656.7	7685.1	6659.0	5747.5	4977.8	4513.9	4251.9	4191.9
15°	10299.6	10037.6	9087.8	7914.3	6571.6	5294.4	4301.0	3558.7	3203.9	3051.1	3094.8
17.5°	10315.9	9922.9	8645.7	7128.4	5474.5	3886.2	2936.5	2554.4	2461.6	2499.8	2499.8
20°	10299.6	9666.4	8110.8	6222.3	4191.9	2696.3	2156.0	2019.5	2079.6	2199.6	2172.4
22.5°	10212.2	9546.3	7619.6	5267.1	3083.9	1997.7	1730.2	1735.7	1828.5	1975.9	2008.6
25°	10277.7	9278.9	6997.4	4301.0	2248.8	1593.8	1501.0	1539.2	1637.5	1746.6	1768.4
27.5°	10228.6	9087.8	6347.8	3340.4	1642.9	1370.0	1364.5	1408.2	1451.9	1533.7	1533.7
30°	10283.2	8913.2	5709.2	2483.5	1353.6	1255.4	1233.5	1266.3	1310.0	1326.3	1320.9
32.5°	10485.1	8782.2	4972.4	1855.8	1195.3	1146.2	1146.2	1146.2	1140.8	1162.6	1168.0
35°	10927.3	8804.0	4322.9	1435.5	1091.6	1053.4	1037.1	1015.2	1004.3	1015.2	1020.7
37.5°	11407.6	8793.1	3651.5	1222.6	1015.2	982.5	944.3	911.5	906.1	917.0	900.6
40°	11620.4	8896.8	3029.3	1097.1	944.3	906.1	846.0	818.7	824.2	835.1	824.2
42.5°	11909.7	8929.6	2625.4	998.8	878.8	818.7	780.5	747.8	742.3	758.7	753.2
45°	11904.3	8744.0	2199.6	944.3	818.7	753.2	704.1	676.8	676.8	687.7	693.2
47.5°	12253.6	8716.7	1888.5	895.1	775.1	709.6	649.5	627.7	622.2	622.2	611.3
50°	13066.9	9098.8	1648.4	840.6	720.5	660.4	611.3	584.0	562.2	551.3	545.8
52.5°	14655.2	10288.6	1462.8	775.1	660.4	611.3	567.6	545.8	518.5	491.2	485.8
54°	16194.4	11516.7	1451.9	720.5	611.3	578.6	540.4	529.4	496.7	458.5	447.6
55°	16887.6	12231.8	1490.1	676.8	578.6	556.7	524.0	513.1	480.3	436.7	431.2
57.5°	17460.7	12510.1	1468.2	562.2	524.0	518.5	491.2	474.9	436.7	376.6	365.7
60°	14054.8	9459.0	1053.4	496.7	480.3	469.4	447.6	436.7	387.5	322.0	316.6
62.5°	8880.4	5441.8	671.4	436.7	420.3	403.9	376.6	365.7	322.0	256.5	240.2
65°	3782.5	2254.2	453.0	387.5	360.2	332.9	311.1	294.7	256.5	191.0	185.6
67.5°	982.5	802.4	376.6	338.4	300.2	262.0	245.6	218.3	174.7	131.0	125.5
70°	442.1	403.9	316.6	283.8	240.2	202.0	180.1	152.8	114.6	87.3	81.9
72.5°	262.0	256.5	240.2	212.9	180.1	152.8	131.0	103.7	76.4	49.1	49.1
75°	163.7	158.3	163.7	147.4	125.5	114.6	98.2	71.0	43.7	21.8	21.8
77.5°	98.2	98.2	98.2	92.8	87.3	87.3	71.0	43.7	21.8	5.5	5.5
80°	76.4	76.4	81.9	76.4	76.4	76.4	60.0	32.7	10.9	0.0	0.0
82.5°	76.4	81.9	92.8	87.3	76.4	65.5	54.6	32.7	10.9	0.0	0.0
85°	21.8	16.4	27.3	38.2	54.6	49.1	38.2	27.3	10.9	0.0	0.0
87.5°	10.9	10.9	10.9	10.9	5.5	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)