

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: P651455

Luminaire Tested: **GALN-SA6D-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651455
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31913.4 lumens
Efficiency: N/A
Efficacy: 86.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G4

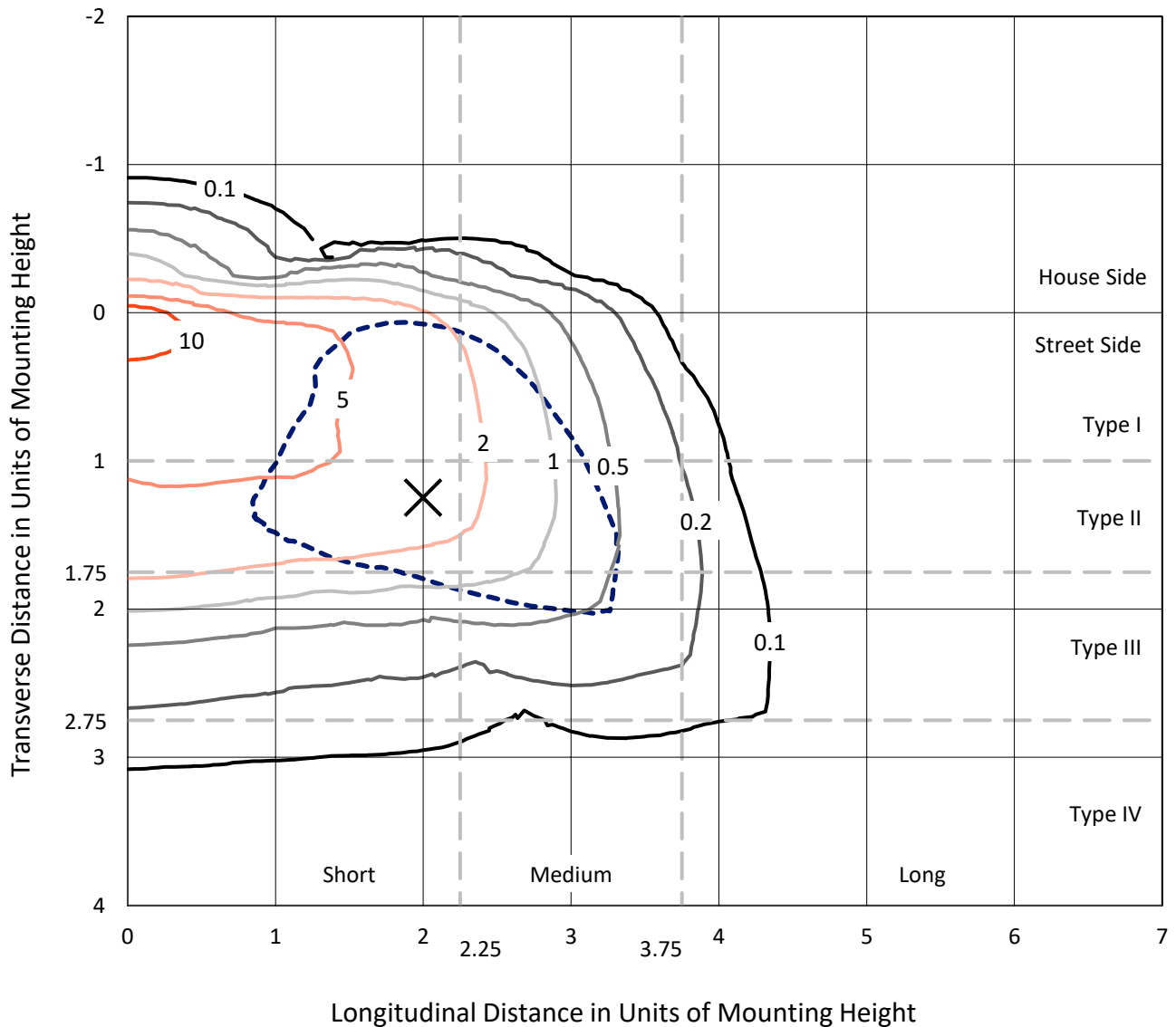
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

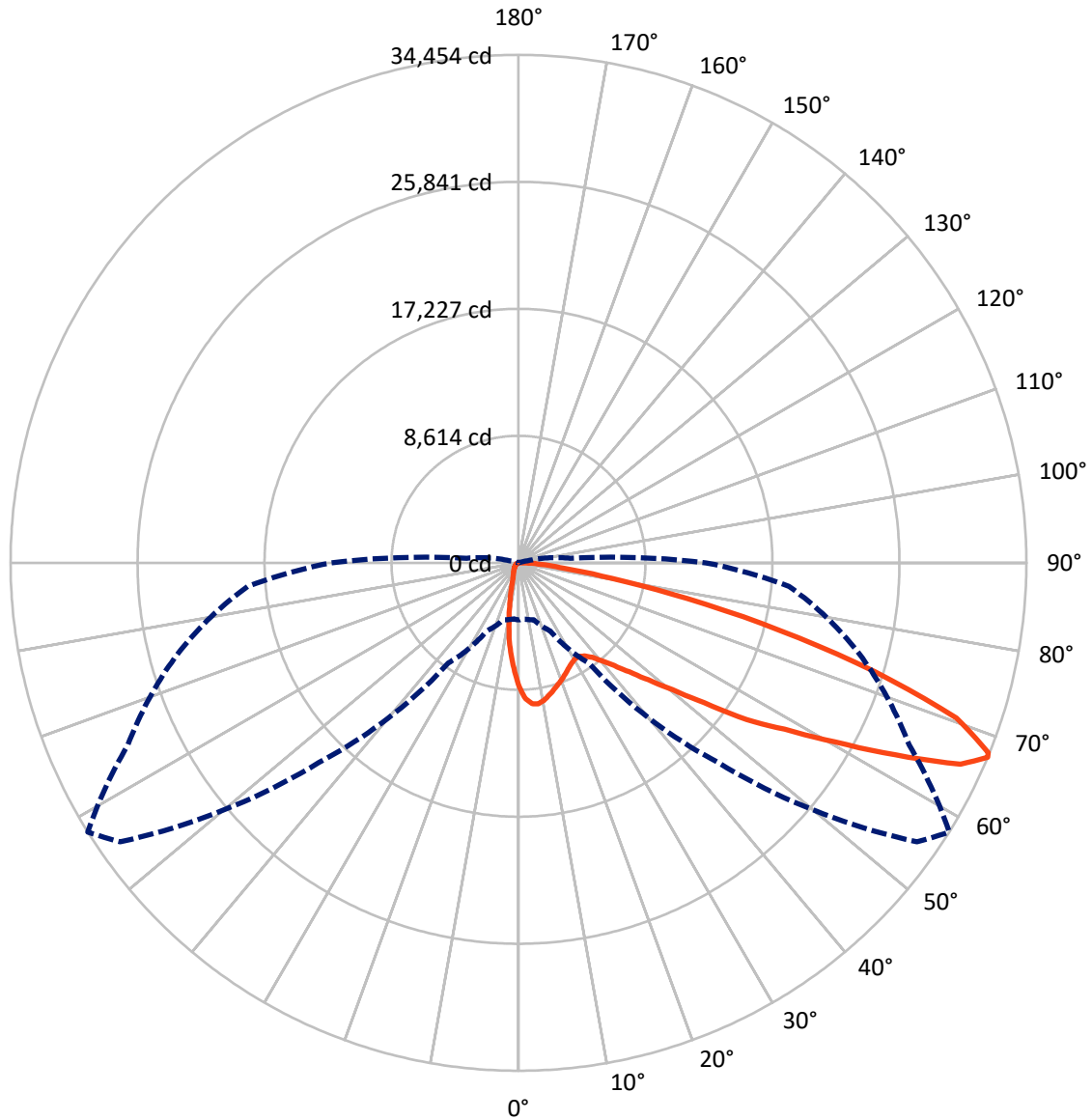
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2303.1	0.0	2303.1
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	29610.4	0.0	29610.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	31913.4	0.0	31913.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	686.5	2.2
10°-20°	1482.7	4.6
20°-30°	2009.1	6.3
30°-40°	2786.6	8.7
40°-50°	4444.2	13.9
50°-60°	7682.3	24.1
60°-70°	8775.5	27.5
70°-80°	3658.6	11.5
80°-90°	387.9	1.2
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°	31913.4	100.0
0°-180°	31913.4	100.0

Coefficient of Utilization

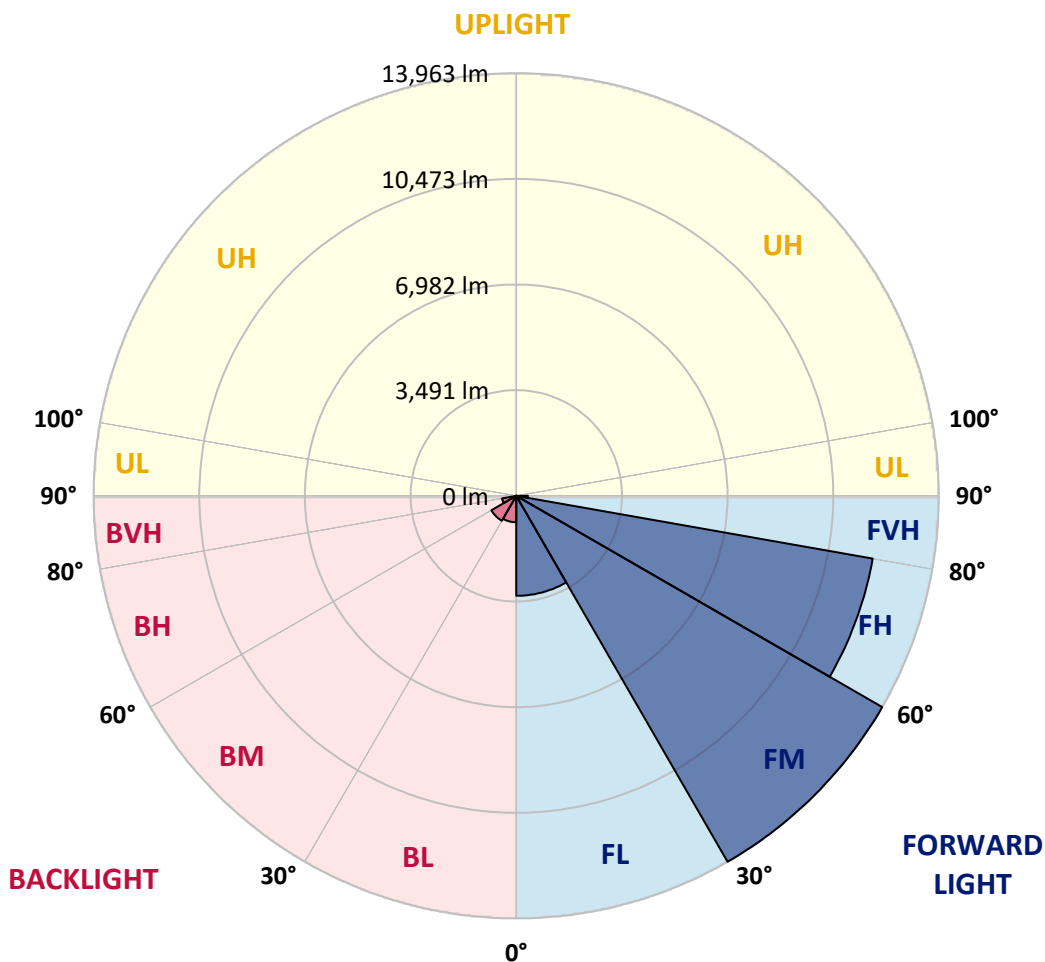


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3303.8	10.4			
FM (30°-60°)	13963.5	43.8			
FH (60°-80°)	11958.0	37.5			G4/12000
FVH (80°-90°)	385.1	1.2			G3/500
BL (0°-30°)	874.5	2.7	B2/1000		
BM (30°-60°)	949.6	3.0	B1/1000		
BH (60°-80°)	476.1	1.5	B1/500		G1/500
BVH (80°-90°)	2.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	8460.0	8460.0	8460.0	8460.0	8460.0	8460.0	8460.0	8460.0	8460.0	8460.0	8460.0
2.5°	9818.4	9833.3	9777.9	9733.1	9617.9	9494.2	9330.1	9242.6	9093.3	8835.3	8549.5
5°	10048.8	10067.9	10059.4	10048.8	10003.9	9884.5	9675.5	9598.8	9379.1	8959.0	8442.9
7.5°	9536.9	9607.2	9615.8	9699.0	9777.9	9788.6	9709.7	9652.1	9449.5	8956.8	8253.1
10°	8858.8	8905.7	8973.9	9069.8	9259.7	9417.5	9494.2	9485.7	9368.4	8890.7	8031.3
12.5°	8174.2	8199.8	8304.3	8468.4	8700.9	8969.7	9174.4	9214.9	9217.0	8811.8	7845.8
15°	7585.6	7575.0	7656.0	7845.8	8172.1	8509.0	8875.8	8939.7	9042.2	8735.0	7673.0
17.5°	7082.3	7137.7	7150.5	7359.5	7660.2	8097.4	8564.5	8677.4	8882.2	8668.9	7530.1
20°	6771.0	6800.8	6828.5	6945.8	7216.6	7677.3	8272.3	8428.0	8732.9	8609.2	7370.2
22.5°	6679.2	6698.5	6675.0	6711.3	6903.2	7312.7	7954.5	8161.4	8590.1	8553.8	7240.1
25°	6749.6	6768.8	6713.4	6670.7	6736.8	7016.2	7647.5	7899.1	8474.9	8543.1	7142.0
27.5°	6920.3	6956.5	6879.7	6802.9	6764.6	6856.3	7406.4	7698.6	8396.0	8594.3	7097.2
30°	7186.8	7208.1	7150.5	7056.7	6969.3	6877.6	7280.6	7560.0	8374.7	8713.8	7093.0
32.5°	7476.8	7521.7	7489.6	7427.8	7314.8	7097.2	7316.9	7564.3	8425.8	8886.5	7146.3
35°	7835.1	7886.3	7916.2	7903.4	7758.3	7487.5	7547.2	7756.2	8562.3	9204.2	7291.3
37.5°	8187.0	8231.8	8400.2	8457.9	8329.9	8073.9	7995.1	8133.6	8863.0	9620.1	7553.6
40°	8590.1	8649.8	8886.5	9106.1	9044.3	8775.6	8630.6	8745.7	9323.7	10247.1	8050.5
42.5°	8976.1	9082.6	9443.1	9831.2	9888.8	9588.1	9492.1	9530.5	10006.0	11149.1	8743.6
45°	9524.2	9624.3	10089.2	10616.0	10886.8	10652.3	10554.1	10547.7	10942.3	12418.0	9867.5
47.5°	10315.3	10404.9	10952.9	11473.3	11955.2	11987.3	11801.8	11865.7	12119.5	13902.3	11245.1
50°	11285.6	11496.7	11857.2	12398.9	13042.9	13563.2	13620.8	13535.5	13753.0	15621.2	12900.0
52.5°	12695.2	12776.3	13106.8	13552.5	14307.5	15190.4	15875.0	15757.6	15689.4	17259.0	14571.9
55°	13746.6	13855.4	14369.3	14981.4	16088.2	17252.6	18736.9	18777.4	17915.8	18832.8	16207.7
57.5°	13428.8	13595.2	14373.6	15604.1	18037.3	20165.7	21270.4	21298.1	19975.9	20361.9	18054.4
60°	11797.5	11876.3	12991.7	14633.8	18203.7	23321.9	24863.7	24639.9	22072.2	22072.2	19685.9
62.5°	8366.1	8489.8	9394.1	11810.2	16440.1	24418.1	29167.3	28704.6	24959.8	23708.0	20658.3
65°	5346.4	5227.0	5826.2	7455.5	12247.4	22799.4	32914.3	32942.0	27676.6	24362.6	20127.3
67°	3872.8	3825.9	3998.6	5096.9	8304.3	19165.5	32993.2	34454.0	29237.7	23948.9	18429.8
67.5°	3542.2	3578.5	3704.3	4597.8	7545.1	17440.2	32634.9	34364.4	29589.6	23699.4	17815.6
70°	2684.9	2623.1	2759.6	3252.1	4523.2	11002.0	28073.3	31517.5	29152.4	21223.5	14235.0
72.5°	1974.8	1968.4	2158.2	2659.3	3482.5	5860.3	21074.2	25271.1	23816.7	16160.7	8963.2
75°	1332.9	1392.6	1695.4	2222.2	3156.2	3800.2	14367.2	18333.8	16533.9	9176.5	3663.8
77.5°	759.2	763.5	1091.9	1784.9	2834.2	3058.1	8513.3	11680.1	8752.1	3051.7	1087.6
80°	328.4	360.4	541.7	1296.6	2350.1	2708.4	4881.5	6419.1	3540.1	646.1	351.9
82.5°	121.5	142.9	238.8	797.6	1714.6	2230.7	2949.4	3064.5	1200.6	228.2	219.7
85°	0.0	4.3	87.5	373.2	893.6	995.9	1970.5	1817.0	531.0	108.7	142.9
87.5°	0.0	0.0	0.0	38.3	117.3	371.0	612.1	682.4	127.9	38.3	34.1
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°	8460.0	8460.0	8460.0	8460.0	8460.0	8460.0	8460.0	8460.0	8460.0	8460.0	8460.0
2.5°	8396.0	8257.4	7909.8	7562.1	7304.1	7088.7	6764.6	6587.6	6493.7	6355.1	6363.6
5°	8184.9	7903.4	7291.3	6657.9	6146.1	5647.1	5050.0	4809.0	4606.4	4491.2	4414.4
7.5°	7871.3	7455.5	6549.2	5704.7	4917.7	4045.5	3390.8	2953.6	2659.3	2550.6	2446.0
10°	7528.0	6975.7	5796.3	4625.6	3533.7	2633.8	2079.3	1678.4	1535.5	1403.2	1416.1
12.5°	7210.2	6538.5	5105.4	3650.9	2475.9	1674.1	1305.1	1140.9	1094.1	1079.1	1079.1
15°	6950.1	6120.5	4363.3	2744.6	1697.6	1202.8	1044.9	1000.2	983.1	978.8	978.8
17.5°	6672.8	5723.8	3693.7	2028.1	1234.8	1006.6	953.3	923.4	917.0	912.7	912.7
20°	6425.5	5325.0	3058.1	1509.8	998.0	906.3	872.2	853.0	846.6	842.3	844.5
22.5°	6190.9	4971.1	2461.0	1140.9	878.6	825.3	791.2	772.0	759.2	748.6	750.7
25°	5981.9	4629.9	1979.0	934.1	791.2	744.3	710.1	682.4	654.7	641.9	639.7
27.5°	5834.8	4331.2	1541.9	799.7	712.2	661.1	618.5	584.3	548.1	528.9	524.6
30°	5713.2	4028.5	1219.9	705.9	633.4	584.3	531.0	482.0	443.5	424.4	415.9
32.5°	5634.3	3740.5	961.8	629.2	567.3	507.5	447.8	398.8	356.2	337.0	332.7
35°	5621.5	3499.6	786.9	565.2	507.5	443.5	381.7	328.4	292.2	273.0	268.7
37.5°	5713.2	3314.0	659.0	513.9	458.5	388.1	319.9	270.8	238.8	224.0	221.8
40°	5958.4	3196.7	571.5	471.3	413.7	337.0	273.0	230.3	198.3	183.4	183.4
42.5°	6425.5	3201.0	513.9	430.8	368.9	287.9	232.5	191.9	164.2	151.4	147.2
45°	7154.8	3346.0	464.9	390.2	326.3	249.5	198.3	157.8	130.1	119.4	119.4
47.5°	8131.5	3634.0	422.3	349.8	287.9	213.3	168.5	127.9	104.5	93.9	93.9
50°	9408.9	4096.7	386.0	315.6	255.9	183.4	136.5	104.5	81.1	72.5	70.4
52.5°	10743.9	4668.2	343.4	285.8	219.7	155.7	110.9	81.1	61.8	55.4	53.3
55°	12217.5	5227.0	302.8	255.9	179.1	130.1	87.5	64.0	44.8	38.3	38.3
57.5°	13704.0	5775.1	253.8	213.3	140.8	96.0	68.2	46.9	29.9	23.5	23.5
60°	14962.2	5952.0	215.4	172.7	106.6	68.2	49.0	29.9	17.1	10.7	10.7
62.5°	15135.0	5354.9	181.2	132.2	76.8	46.9	25.6	17.1	6.4	4.3	4.3
65°	14196.6	4350.5	151.4	100.2	51.2	23.5	10.7	6.4	2.1	0.0	0.0
67°	12720.9	3527.3	123.7	74.7	36.2	15.0	6.4	2.1	0.0	0.0	0.0
67.5°	12343.4	3363.1	119.4	70.4	32.0	12.8	4.3	2.1	0.0	0.0	0.0
70°	9686.2	2518.5	85.3	42.6	19.2	8.5	0.0	0.0	0.0	0.0	0.0
72.5°	6020.3	1424.6	61.8	25.6	12.8	4.3	0.0	0.0	0.0	0.0	0.0
75°	2275.5	499.0	42.6	17.1	8.5	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	708.0	189.8	25.6	12.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0
80°	238.8	72.5	17.1	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	147.2	29.9	10.7	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	91.7	12.8	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.1	4.3	2.1	0.0	0.0	0.0	0.0	0.0	0.0	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)