

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: P651017

Luminaire Tested: **GALN-SA7C-840-U-SL4-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651017
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA7C-840-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33875.5 lumens
Efficiency: N/A
Efficacy: 89.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G5

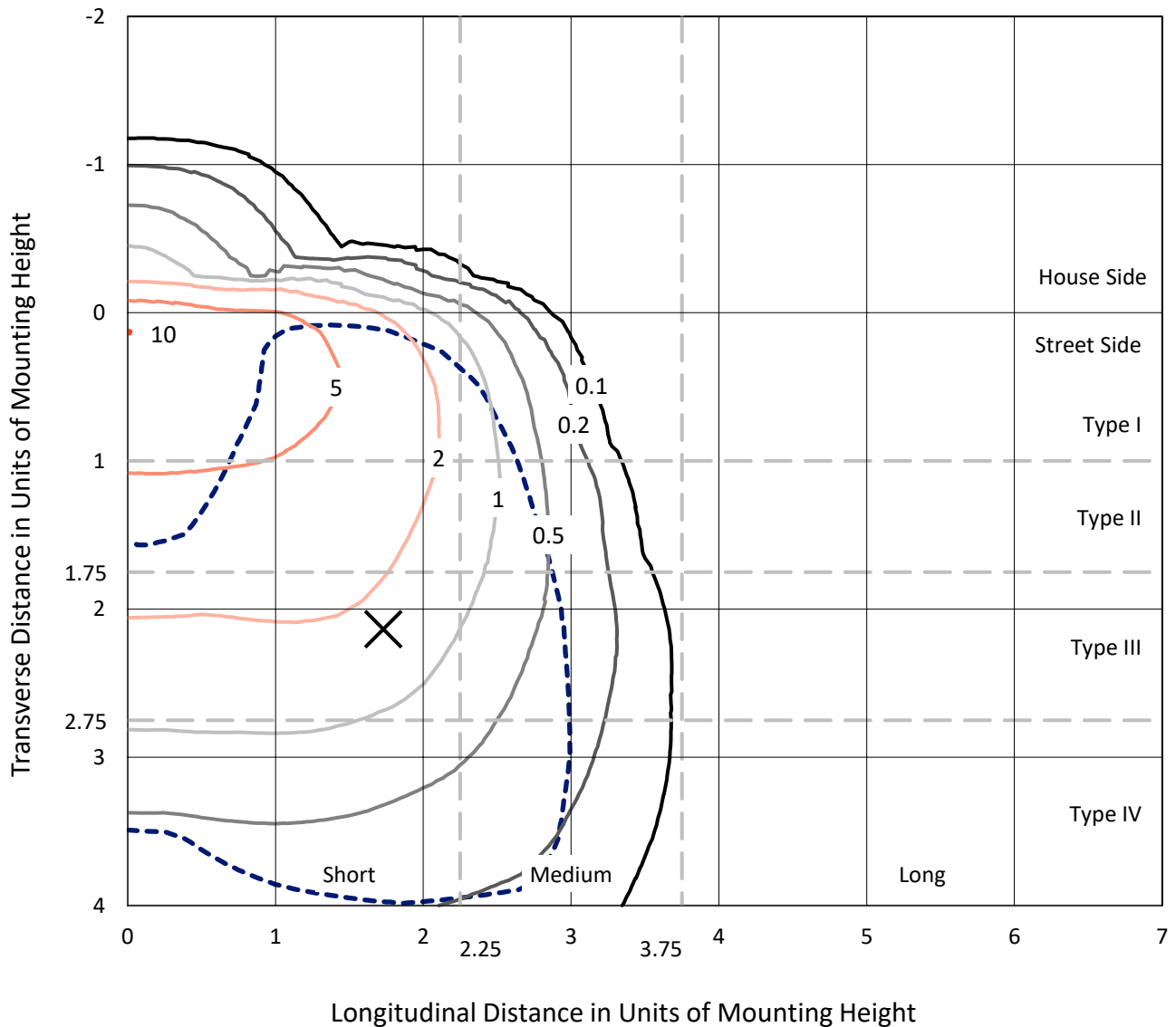
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

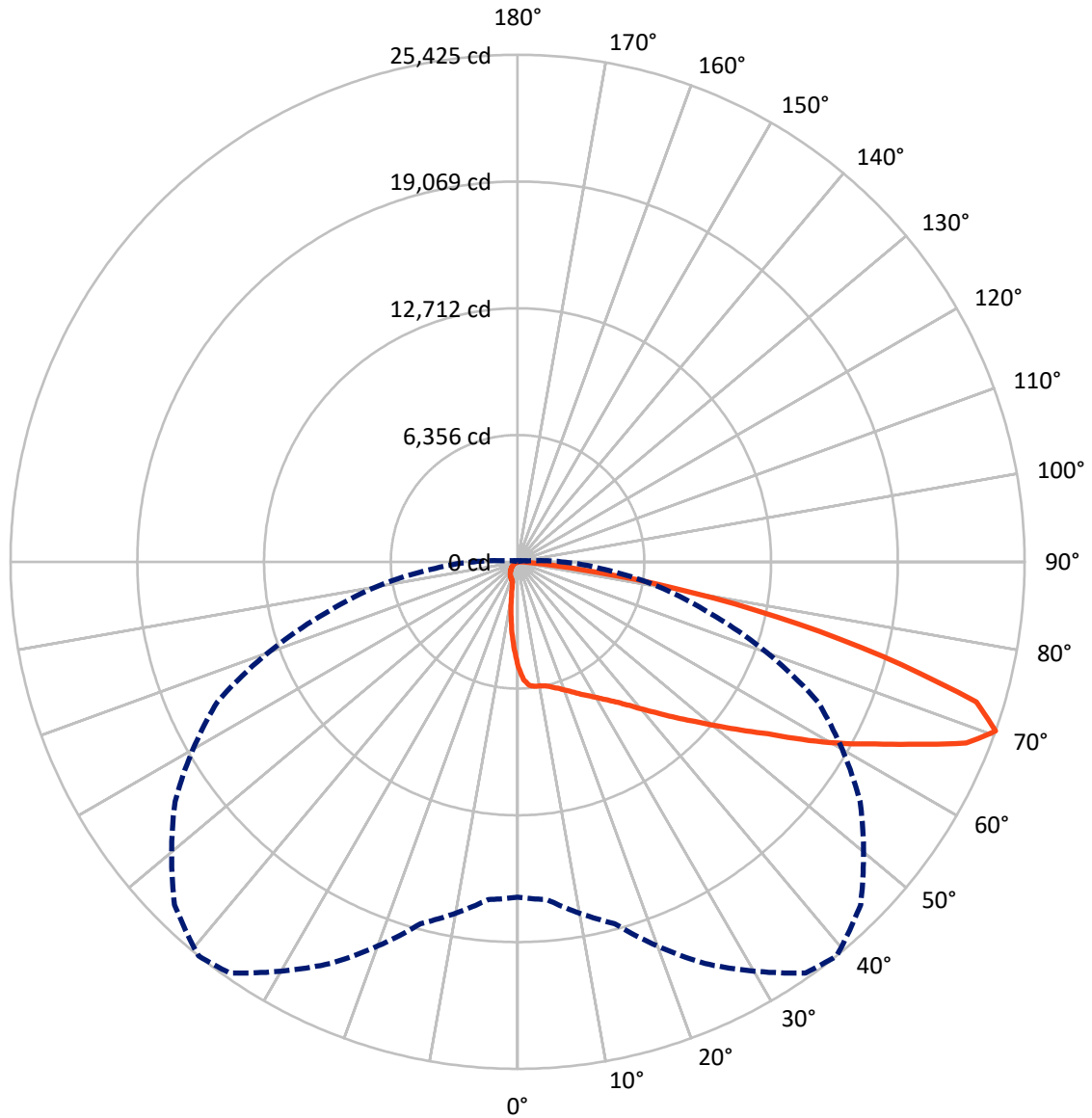
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2208.8	0.0	2208.8
	% Fixture	6.5	0.0	6.5
Street Side	Lumens	31666.6	0.0	31666.6
	% Fixture	93.5	0.0	93.5
Total	Lumens	33875.5	0.0	33875.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	450.8	1.3
10°-20°	1171.6	3.5
20°-30°	1962.7	5.8
30°-40°	3044.0	9.0
40°-50°	4823.8	14.2
50°-60°	7071.0	20.9
60°-70°	9063.3	26.8
70°-80°	5695.0	16.8
80°-90°	593.3	1.8
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°	33875.5	100.0
0°-180°	33875.5	100.0

Coefficient of Utilization

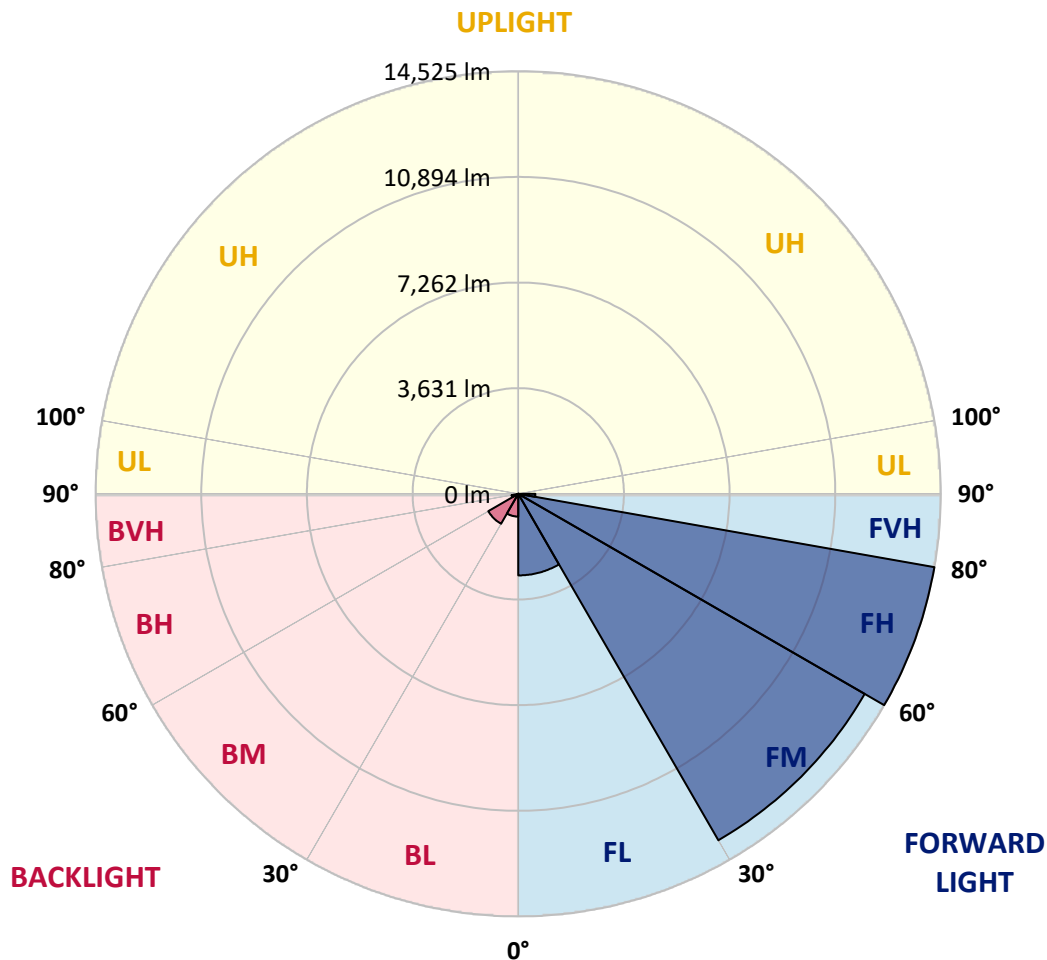


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2803.0	8.3			
FM (30°-60°)	13750.0	40.6			
FH (60°-80°)	14524.7	42.9			G5
FVH (80°-90°)	588.9	1.7			G4/750
BL (0°-30°)	782.1	2.3	B2/1000		
BM (30°-60°)	1188.7	3.5	B2/2500		
BH (60°-80°)	233.6	0.7	B1/500		G1/500
BVH (80°-90°)	4.4	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-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	5285.8	5285.8	5285.8	5285.8	5285.8	5285.8	5285.8	5285.8	5285.8	5285.8	5285.8
2.5°	6107.5	6087.0	6059.7	6027.9	5936.8	5920.8	5866.2	5750.1	5611.2	5497.4	5340.3
5°	6396.6	6408.0	6387.5	6330.6	6264.6	6225.8	6157.5	5977.7	5797.9	5568.0	5310.7
7.5°	6462.6	6485.4	6460.3	6405.7	6342.0	6301.0	6246.4	6091.5	5882.1	5620.4	5267.5
10°	6455.8	6483.1	6467.2	6417.1	6364.8	6326.0	6266.9	6143.9	5975.5	5700.0	5281.1
12.5°	6444.4	6480.8	6478.6	6453.5	6410.3	6380.7	6344.3	6235.0	6077.9	5816.1	5356.3
15°	6412.5	6458.0	6499.1	6519.5	6521.8	6521.8	6476.3	6360.1	6209.9	5968.7	5454.2
17.5°	6426.2	6478.6	6581.0	6640.2	6681.2	6676.6	6628.8	6503.6	6337.4	6125.8	5556.7
20°	6510.4	6581.0	6724.4	6842.8	6883.8	6870.1	6806.4	6660.6	6471.7	6260.0	5656.8
22.5°	6717.6	6781.3	6961.1	7100.0	7129.6	7093.2	7002.1	6804.1	6633.4	6405.7	5777.4
25°	7027.1	7102.2	7268.4	7373.1	7373.1	7352.7	7225.2	6993.0	6815.5	6608.3	5934.5
27.5°	7402.7	7466.5	7630.4	7723.7	7669.1	7609.9	7482.5	7202.4	7031.7	6863.2	6123.4
30°	7783.0	7823.9	7996.9	8037.9	7980.9	7905.8	7769.2	7489.3	7339.0	7209.3	6396.6
32.5°	8142.6	8231.4	8374.8	8365.7	8288.3	8251.9	8126.7	7828.4	7744.2	7730.6	6779.0
35°	8502.3	8570.5	8698.0	8729.9	8661.6	8654.7	8563.7	8342.9	8345.2	8434.0	7375.5
37.5°	8811.8	8873.3	9023.5	9094.1	9107.8	9141.9	9105.5	8959.8	9167.0	9410.5	8165.4
40°	9071.4	9157.8	9349.1	9472.0	9613.1	9738.4	9745.2	9777.0	10193.6	10612.4	9196.5
42.5°	9274.0	9394.6	9672.3	9899.9	10223.2	10382.6	10510.0	10685.3	11386.4	12012.4	10412.2
45°	9538.0	9676.9	10022.9	10380.3	10885.7	11147.4	11325.0	11793.8	12788.7	13642.3	11659.5
47.5°	9975.1	10047.9	10400.7	10922.1	11586.7	11960.0	12306.1	13016.3	14293.4	15058.2	12697.6
50°	10537.3	10585.2	10851.5	11575.4	12435.8	12927.5	13558.1	14393.5	15855.0	16232.8	13284.9
52.5°	11158.8	11174.7	11375.0	12294.7	13387.4	14006.5	14712.2	15743.4	17127.4	17070.5	13674.2
55°	11880.4	11857.6	12028.3	13075.4	14514.1	15222.1	16043.8	17125.1	18231.5	17664.6	13897.3
57.5°	12706.7	12645.3	12811.5	14111.2	15957.4	16804.2	17639.6	18318.0	19087.4	18163.2	14004.2
60°	13571.7	13448.8	13646.8	15274.5	17657.8	18461.4	19155.7	19337.8	19988.8	18559.3	13819.8
62.5°	14261.5	14263.8	14632.6	16512.8	19406.1	20109.5	20478.3	20642.2	20765.0	18472.7	12850.1
65°	15338.2	15374.7	15964.2	18231.5	21429.8	22039.8	22292.6	21759.9	20799.2	17398.4	11393.3
67.5°	16449.0	16565.2	17644.2	20598.9	23767.6	24259.3	23933.8	21976.1	19870.5	14946.7	8638.8
70°	16811.0	17002.2	18780.0	22228.8	25169.9	25424.8	24323.1	20967.6	16610.7	9993.3	4347.9
72.5°	15404.2	15713.8	18126.7	21634.6	24275.2	24054.5	21762.1	17585.0	10560.1	3794.7	1327.1
75°	10862.9	10999.4	15065.0	17946.9	19524.5	18898.4	16553.7	11336.3	4343.3	1065.4	455.2
77.5°	5609.0	5542.9	8959.8	11907.7	13924.6	13275.8	10840.1	5868.5	1645.8	443.9	282.2
80°	2900.1	2947.9	3876.7	6239.5	8500.0	7821.6	5779.7	2720.3	876.4	245.8	216.2
82.5°	1625.3	1525.2	2228.6	2724.8	3974.6	3116.3	2217.2	1925.8	382.4	147.9	204.9
85°	295.9	309.6	1222.4	1472.8	1379.5	876.4	714.8	1286.1	111.5	81.9	143.4
87.5°	4.5	4.5	236.7	423.4	268.6	123.0	225.4	184.3	22.8	31.9	25.1
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°	5285.8	5285.8	5285.8	5285.8	5285.8	5285.8	5285.8	5285.8	5285.8	5285.8	5285.8
2.5°	5260.7	5174.2	5012.6	4853.2	4650.6	4484.5	4372.9	4256.8	4138.5	4147.6	4174.9
5°	5169.6	5019.4	4700.7	4363.8	4040.6	3749.2	3462.4	3205.1	3100.4	3004.8	3009.4
7.5°	5078.5	4866.9	4400.2	3872.1	3382.7	2886.5	2526.8	2230.8	2073.7	1955.4	1921.3
10°	5037.6	4757.6	4124.8	3398.6	2704.3	2162.5	1700.4	1459.1	1272.5	1213.3	1229.2
12.5°	5055.8	4703.0	3876.7	2970.7	2144.4	1507.0	1183.7	1060.8	1019.8	1013.0	1008.4
15°	5090.0	4664.3	3633.1	2497.2	1575.3	1120.0	994.7	972.0	967.5	962.9	965.2
17.5°	5135.5	4630.1	3373.6	2053.3	1208.8	978.8	942.4	931.1	928.8	928.8	928.8
20°	5181.1	4591.4	3084.5	1657.2	1008.4	924.2	901.5	894.7	892.3	892.3	890.0
22.5°	5233.4	4557.3	2790.9	1302.1	928.8	885.5	865.1	860.4	858.2	855.9	855.9
25°	5308.5	4514.1	2478.9	1065.4	878.7	849.1	828.6	824.0	821.7	812.7	814.9
27.5°	5408.6	4482.2	2158.0	919.6	833.2	803.6	789.9	783.1	778.5	771.7	774.0
30°	5545.2	4454.9	1816.6	840.0	780.8	755.7	742.1	737.6	733.0	726.2	726.2
32.5°	5782.0	4466.2	1456.9	776.2	733.0	703.4	689.7	685.2	680.6	673.8	673.8
35°	6137.1	4532.2	1165.5	721.6	676.1	646.5	632.9	632.9	626.0	616.9	614.6
37.5°	6717.6	4700.7	935.6	669.3	621.4	594.2	578.2	573.6	566.8	553.1	550.9
40°	7402.7	4962.5	787.6	616.9	571.4	544.0	530.4	516.7	498.5	484.8	482.6
42.5°	8263.2	5231.1	682.9	564.6	523.6	498.5	482.6	459.9	432.5	414.3	412.0
45°	9160.1	5476.9	612.3	516.7	478.0	457.6	439.3	402.9	368.8	346.0	343.7
47.5°	9829.4	5522.5	555.4	471.2	439.3	418.8	393.8	348.3	302.8	282.2	275.4
50°	10145.8	5301.7	496.3	425.7	400.7	377.9	346.0	293.7	243.6	218.5	214.0
52.5°	10257.3	4919.3	448.4	384.7	362.0	334.6	295.9	236.7	191.2	166.2	163.9
55°	10211.8	4436.6	405.2	346.0	316.4	284.5	245.8	189.0	141.1	120.7	116.1
57.5°	9972.7	3822.0	362.0	307.3	270.9	239.0	195.8	141.1	95.6	77.4	75.1
60°	9328.5	2984.3	318.7	264.1	229.9	195.8	154.8	100.2	59.2	43.2	43.2
62.5°	8240.5	2214.9	277.7	220.8	193.5	157.1	109.2	63.7	31.9	22.8	20.5
65°	6886.0	1634.4	232.2	186.7	161.6	123.0	77.4	38.7	15.9	6.8	4.5
67.5°	4805.4	1008.4	193.5	152.6	132.0	88.8	47.8	15.9	6.8	0.0	0.0
70°	2183.1	480.3	147.9	116.1	100.2	63.7	25.1	9.1	4.5	0.0	0.0
72.5°	678.4	252.6	104.7	84.2	68.3	41.0	13.6	6.8	4.5	0.0	0.0
75°	314.1	161.6	66.0	45.5	38.7	20.5	9.1	4.5	2.3	0.0	0.0
77.5°	234.5	125.2	38.7	25.1	20.5	13.6	6.8	4.5	2.3	0.0	0.0
80°	204.9	63.7	22.8	15.9	11.4	9.1	4.5	2.3	0.0	0.0	0.0
82.5°	184.3	31.9	13.6	9.1	6.8	4.5	2.3	2.3	0.0	0.0	0.0
85°	100.2	18.2	9.1	6.8	4.5	2.3	2.3	0.0	0.0	0.0	0.0
87.5°	18.2	9.1	6.8	4.5	4.5	2.3	2.3	2.3	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)