

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: P651125

Luminaire Tested: **GALN-SA9C-840-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651125
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-SA9C-840-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1050mA 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: 44339.2 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B3 - U0 - G5

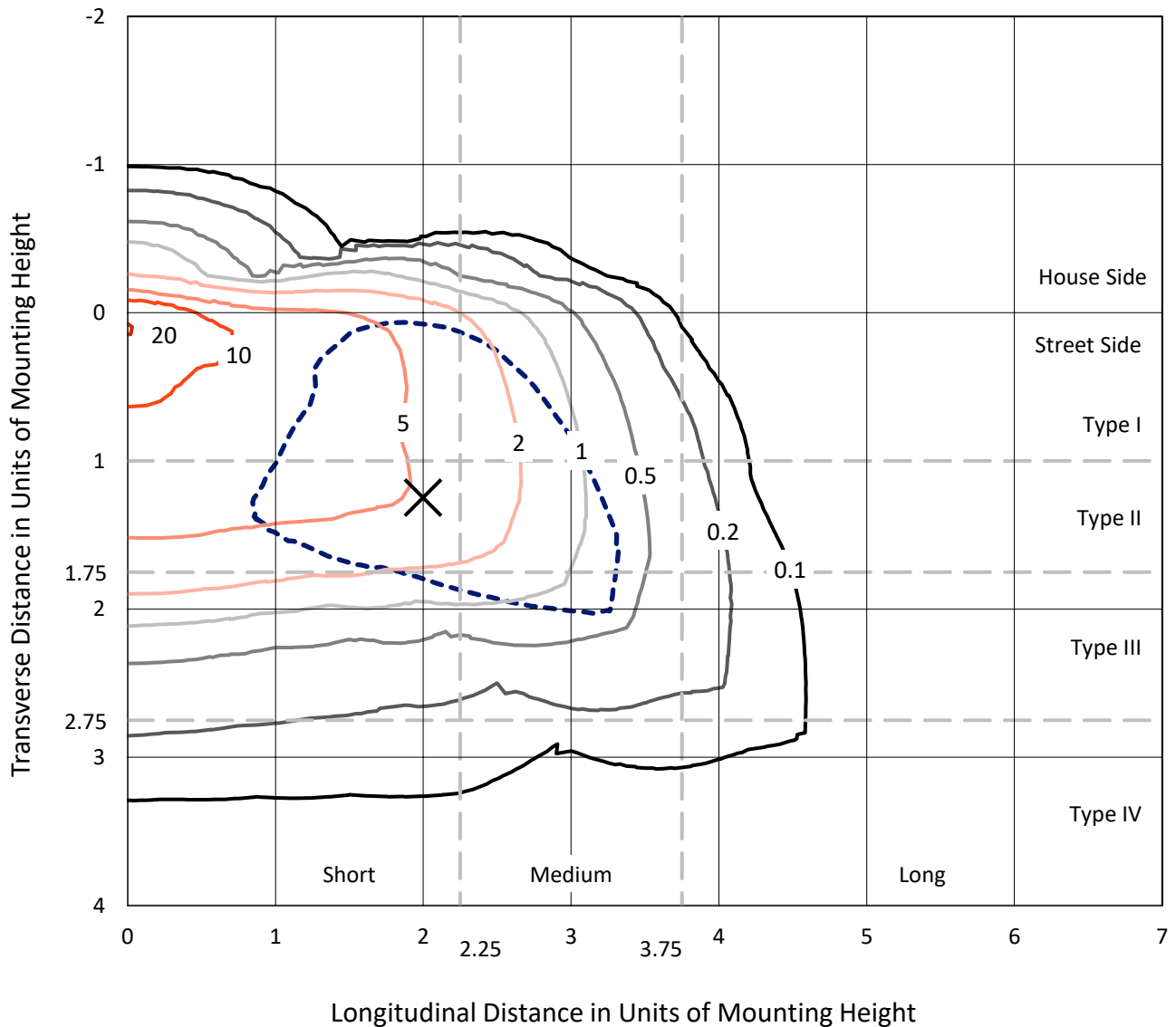
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

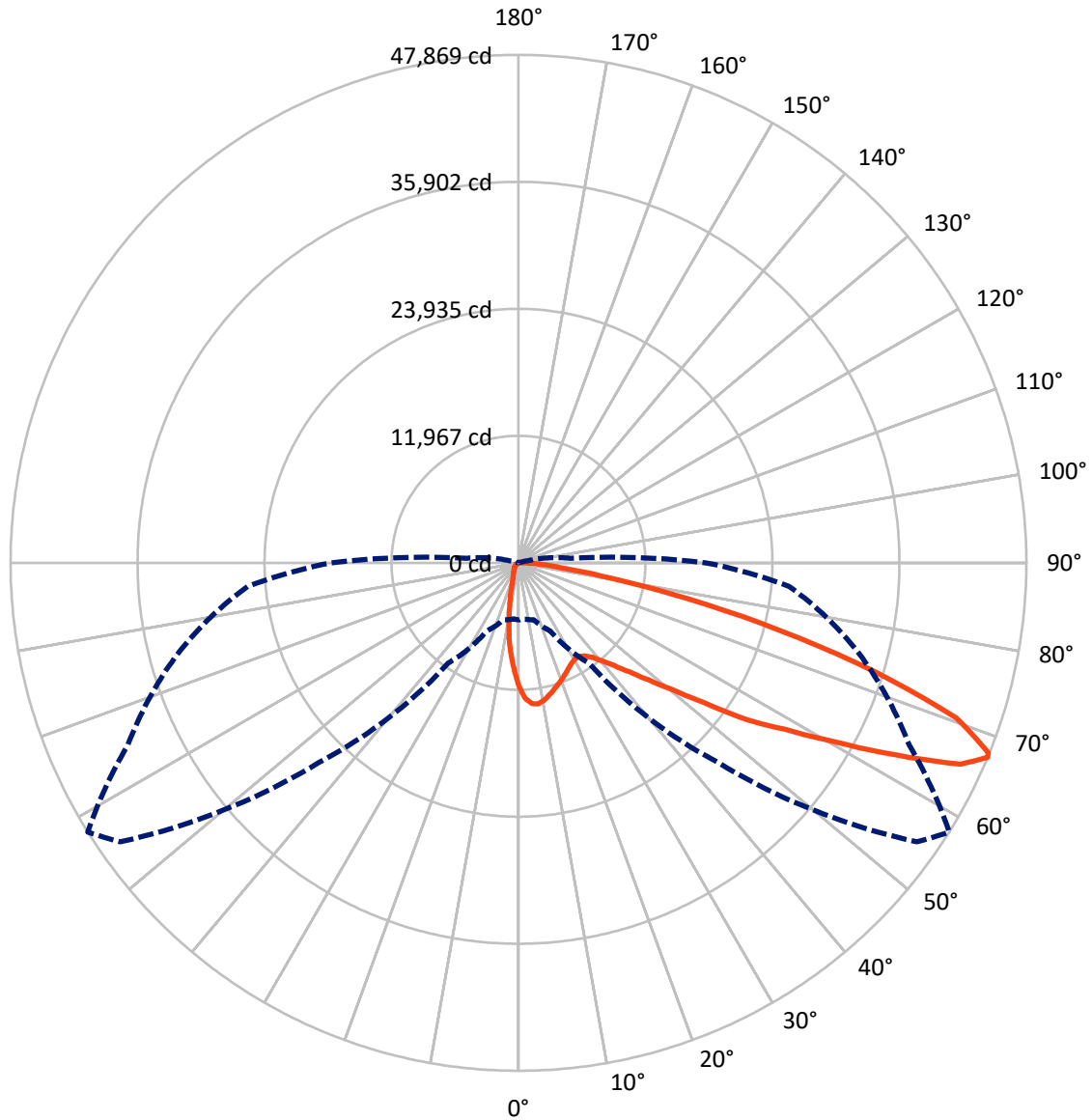
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 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	3199.8	0.0	3199.8
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	41139.4	0.0	41139.4
	% Fixture	92.8	0.0	92.8
Total	Lumens	44339.2	0.0	44339.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	953.8	2.2
10°-20°	2060.0	4.6
20°-30°	2791.4	6.3
30°-40°	3871.5	8.7
40°-50°	6174.7	13.9
50°-60°	10673.4	24.1
60°-70°	12192.4	27.5
70°-80°	5083.1	11.5
80°-90°	538.9	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°	44339.2	100.0
0°-180°	44339.2	100.0

Coefficient of Utilization



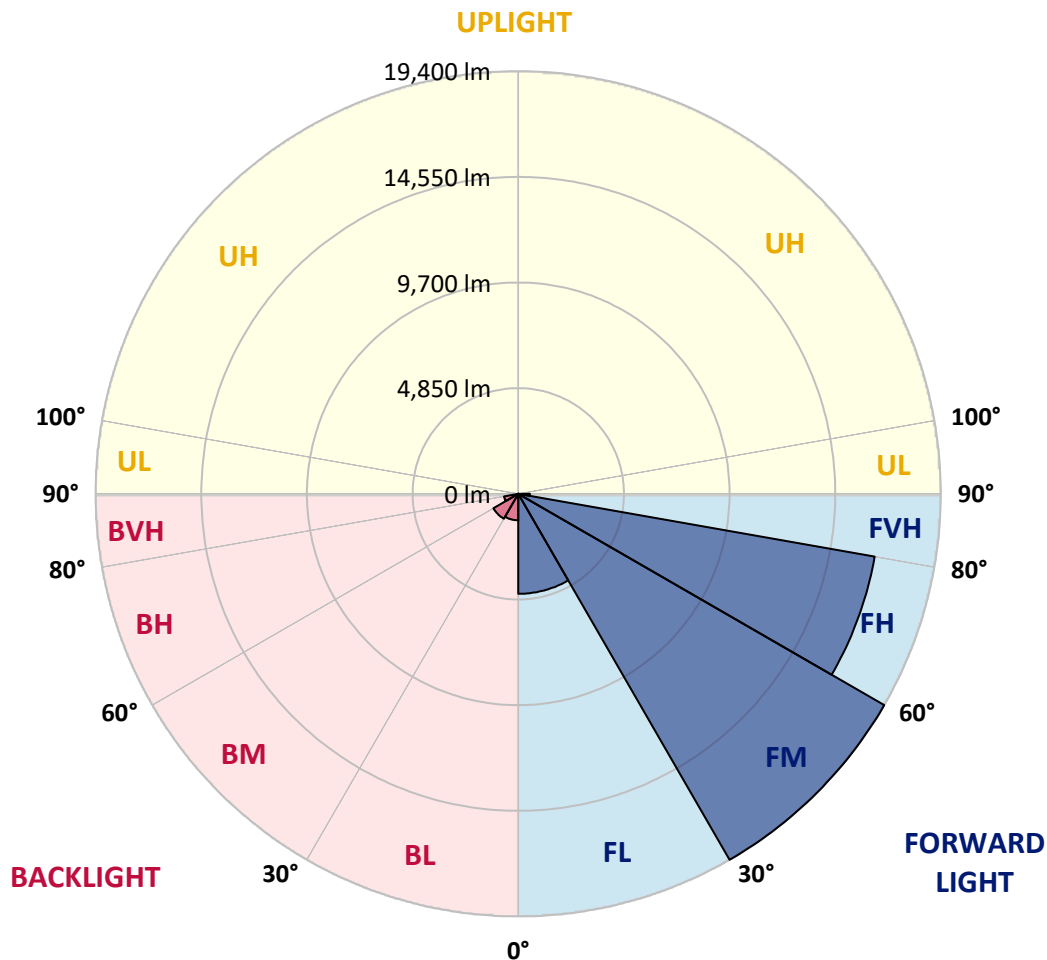
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4590.2	10.4			
FM (30°-60°)	19400.3	43.8			
FH (60°-80°)	16614.0	37.5			G5
FVH (80°-90°)	535.0	1.2			G4/750
BL (0°-30°)	1215.0	2.7	B3/2500		
BM (30°-60°)	1319.4	3.0	B2/2500		
BH (60°-80°)	661.5	1.5	B2/1000		G2/1000
BVH (80°-90°)	3.9	0.0			G0/10
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 Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	11753.9	11753.9	11753.9	11753.9	11753.9	11753.9	11753.9	11753.9	11753.9	11753.9	11753.9
2.5°	13641.3	13662.0	13585.0	13522.8	13362.8	13190.9	12962.8	12841.3	12633.9	12275.4	11878.4
5°	13961.3	13987.9	13976.1	13961.3	13899.0	13733.1	13442.8	13336.2	13031.0	12447.2	11730.2
7.5°	13250.2	13347.9	13359.8	13475.3	13585.0	13599.8	13490.2	13410.2	13128.7	12444.3	11466.5
10°	12308.0	12373.1	12468.0	12601.3	12865.0	13084.3	13190.9	13179.1	13016.2	12352.4	11158.4
12.5°	11356.9	11392.4	11537.6	11765.8	12088.7	12462.0	12746.5	12802.8	12805.7	12242.8	10900.6
15°	10539.1	10524.3	10636.9	10900.6	11353.9	11822.0	12331.7	12420.6	12562.8	12136.1	10660.6
17.5°	9839.9	9916.9	9934.6	10225.0	10642.9	11250.2	11899.1	12056.2	12340.6	12044.3	10462.0
20°	9407.3	9448.8	9487.3	9650.2	10026.6	10666.5	11493.2	11709.5	12133.2	11961.3	10239.8
22.5°	9279.8	9306.5	9274.0	9324.3	9591.0	10159.9	11051.7	11339.1	11934.6	11884.3	10059.1
25°	9377.7	9404.3	9327.3	9268.0	9359.9	9748.0	10625.0	10974.6	11774.7	11869.5	9922.8
27.5°	9614.6	9665.0	9558.4	9451.7	9398.4	9525.8	10290.2	10696.2	11665.0	11940.6	9860.6
30°	9985.0	10014.7	9934.6	9804.3	9682.9	9555.4	10115.4	10503.6	11635.4	12106.5	9854.7
32.5°	10388.0	10450.3	10405.8	10319.8	10162.8	9860.6	10165.8	10509.5	11706.5	12346.5	9928.8
35°	10885.8	10956.9	10998.3	10980.6	10779.1	10402.8	10485.8	10776.2	11896.1	12788.0	10130.3
37.5°	11374.7	11436.8	11671.0	11751.0	11573.2	11217.6	11108.0	11300.6	12313.9	13365.8	10494.7
40°	11934.6	12017.6	12346.5	12651.7	12565.7	12192.4	11991.0	12150.9	12953.9	14236.9	11185.0
42.5°	12470.9	12619.1	13119.9	13659.1	13739.1	13321.3	13188.0	13241.3	13902.1	15490.1	12148.0
45°	13232.4	13371.6	14017.6	14749.5	15125.7	14799.8	14663.5	14654.6	15202.8	17253.1	13709.5
47.5°	14331.6	14456.1	15217.6	15940.6	16610.2	16654.6	16396.8	16485.7	16838.2	19315.3	15623.5
50°	15679.8	15973.1	16473.8	17226.5	18121.2	18844.2	18924.2	18805.7	19107.9	21703.4	17922.7
52.5°	17638.3	17750.9	18210.1	18829.4	19878.2	21104.9	22056.0	21893.0	21798.2	23978.9	20245.6
55°	19099.0	19250.1	19964.2	20814.5	22352.3	23970.0	26032.2	26088.6	24891.5	26165.6	22518.2
57.5°	18657.5	18888.6	19970.1	21679.7	25060.4	28017.4	29552.2	29590.8	27753.7	28290.0	25084.1
60°	16390.9	16500.5	18050.1	20331.6	25291.5	32402.6	34544.7	34233.6	30666.2	30666.2	27350.7
62.5°	11623.5	11795.4	13051.6	16408.7	22841.1	33925.4	40523.9	39881.0	34678.0	32938.8	28701.8
65°	7428.0	7262.1	8094.7	10358.3	17016.0	31676.6	45729.7	45768.2	38452.8	33848.4	27964.1
67°	5380.6	5315.5	5555.5	7081.4	11537.6	26627.8	45839.4	47869.0	40621.6	33273.7	25605.6
67.5°	4921.4	4971.8	5146.6	6388.1	10482.8	24230.8	45341.6	47744.6	41110.5	32927.0	24752.2
70°	3730.3	3644.4	3834.0	4518.4	6284.4	15285.7	39003.9	43789.0	40503.1	29487.0	19777.5
72.5°	2743.7	2734.8	2998.5	3694.8	4838.4	8142.1	29279.6	35110.7	33089.9	22453.0	12453.2
75°	1851.8	1934.8	2355.6	3087.4	4385.1	5280.0	19961.2	25472.2	22971.6	12749.5	5090.3
77.5°	1054.8	1060.8	1517.0	2479.9	3937.7	4248.8	11828.0	16227.9	12159.9	4239.9	1511.1
80°	456.3	500.7	752.6	1801.4	3265.2	3762.9	6782.2	8918.4	4918.4	897.8	488.9
82.5°	168.9	198.5	331.9	1108.1	2382.2	3099.3	4097.7	4257.7	1668.1	317.1	305.2
85°	0.0	5.9	121.4	518.5	1241.5	1383.7	2737.7	2524.4	737.8	151.1	198.5
87.5°	0.0	0.0	0.0	53.3	163.0	515.5	850.3	948.1	177.8	53.3	47.4
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°	11753.9	11753.9	11753.9	11753.9	11753.9	11753.9	11753.9	11753.9	11753.9	11753.9	11753.9
2.5°	11665.0	11472.4	10989.5	10506.5	10148.0	9848.8	9398.4	9152.4	9022.1	8829.5	8841.3
5°	11371.7	10980.6	10130.3	9250.2	8539.2	7845.9	7016.2	6681.4	6399.9	6239.9	6133.2
7.5°	10936.1	10358.3	9099.1	7925.8	6832.5	5620.7	4711.0	4103.7	3694.8	3543.6	3398.5
10°	10459.1	9691.7	8053.2	6426.6	4909.6	3659.2	2888.8	2331.8	2133.3	1949.6	1967.4
12.5°	10017.7	9084.3	7093.2	5072.5	3439.9	2325.9	1813.3	1585.2	1519.9	1499.3	1499.3
15°	9656.2	8503.6	6062.2	3813.3	2358.5	1671.1	1451.8	1389.6	1365.9	1360.0	1360.0
17.5°	9271.0	7952.5	5131.8	2817.8	1715.6	1398.5	1324.4	1282.9	1274.0	1268.1	1268.1
20°	8927.3	7398.4	4248.8	2097.8	1386.6	1259.2	1211.8	1185.1	1176.3	1170.3	1173.3
22.5°	8601.3	6906.5	3419.3	1585.2	1220.7	1146.6	1099.3	1072.6	1054.8	1040.0	1042.9
25°	8311.0	6432.5	2749.6	1297.7	1099.3	1034.1	986.7	948.1	909.6	891.9	888.9
27.5°	8106.6	6017.7	2142.2	1111.1	989.6	918.5	859.2	811.8	761.4	734.8	728.9
30°	7937.7	5596.9	1694.8	980.7	880.0	811.8	737.8	669.6	616.3	589.6	577.8
32.5°	7828.0	5197.0	1336.3	874.1	788.1	705.2	622.2	554.1	494.8	468.1	462.2
35°	7810.3	4862.2	1093.3	785.2	705.2	616.3	530.3	456.3	406.0	379.3	373.3
37.5°	7937.7	4604.4	915.5	714.1	637.1	539.2	444.5	376.3	331.9	311.1	308.1
40°	8278.4	4441.4	794.1	654.8	574.8	468.1	379.3	320.0	275.5	254.8	254.8
42.5°	8927.3	4447.4	714.1	598.5	512.6	400.0	322.9	266.7	228.2	210.3	204.4
45°	9940.6	4648.8	645.9	542.2	453.3	346.7	275.5	219.2	180.7	165.9	165.9
47.5°	11297.7	5048.9	586.7	485.9	400.0	296.3	234.1	177.8	145.2	130.4	130.4
50°	13072.4	5691.8	536.3	438.5	355.6	254.8	189.6	145.2	112.6	100.8	97.8
52.5°	14927.2	6485.9	477.0	397.0	305.2	216.3	154.1	112.6	86.0	77.0	74.1
55°	16974.6	7262.1	420.8	355.6	248.9	180.7	121.4	88.9	62.2	53.3	53.3
57.5°	19039.7	8023.6	352.5	296.3	195.5	133.3	94.8	65.2	41.5	32.6	32.6
60°	20787.8	8269.6	299.2	240.0	148.2	94.8	68.1	41.5	23.7	14.8	14.8
62.5°	21027.9	7439.9	251.9	183.7	106.6	65.2	35.6	23.7	8.9	5.9	5.9
65°	19724.1	6044.4	210.3	139.3	71.1	32.6	14.8	8.9	2.9	0.0	0.0
67°	17673.9	4900.7	171.8	103.7	50.4	20.8	8.9	2.9	0.0	0.0	0.0
67.5°	17149.4	4672.5	165.9	97.8	44.4	17.7	5.9	2.9	0.0	0.0	0.0
70°	13457.6	3499.2	118.5	59.3	26.7	11.9	0.0	0.0	0.0	0.0	0.0
72.5°	8364.3	1979.2	86.0	35.6	17.7	5.9	0.0	0.0	0.0	0.0	0.0
75°	3161.4	693.3	59.3	23.7	11.9	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	983.7	263.7	35.6	17.7	5.9	0.0	0.0	0.0	0.0	0.0	0.0
80°	331.9	100.8	23.7	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	204.4	41.5	14.8	2.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	127.4	17.7	5.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	23.7	5.9	2.9	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)