

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: P454412

Luminaire Tested: **GALN-SA5C-730-U-T2-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454412
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-11)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA5C-730-U-T2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23970 lumens
Efficiency: N/A
Efficacy: 89.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G4

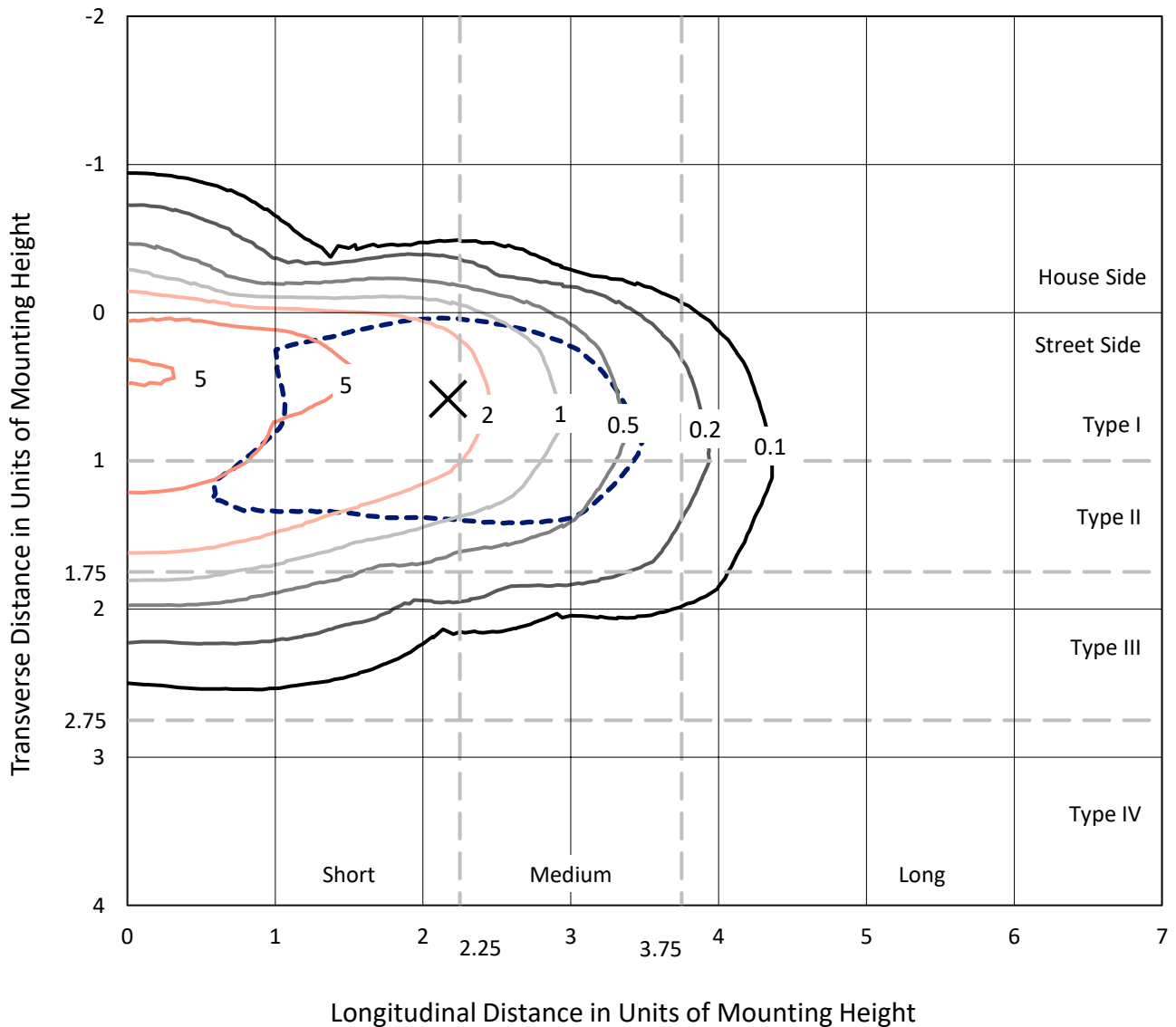
Input Watts (W): 269
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

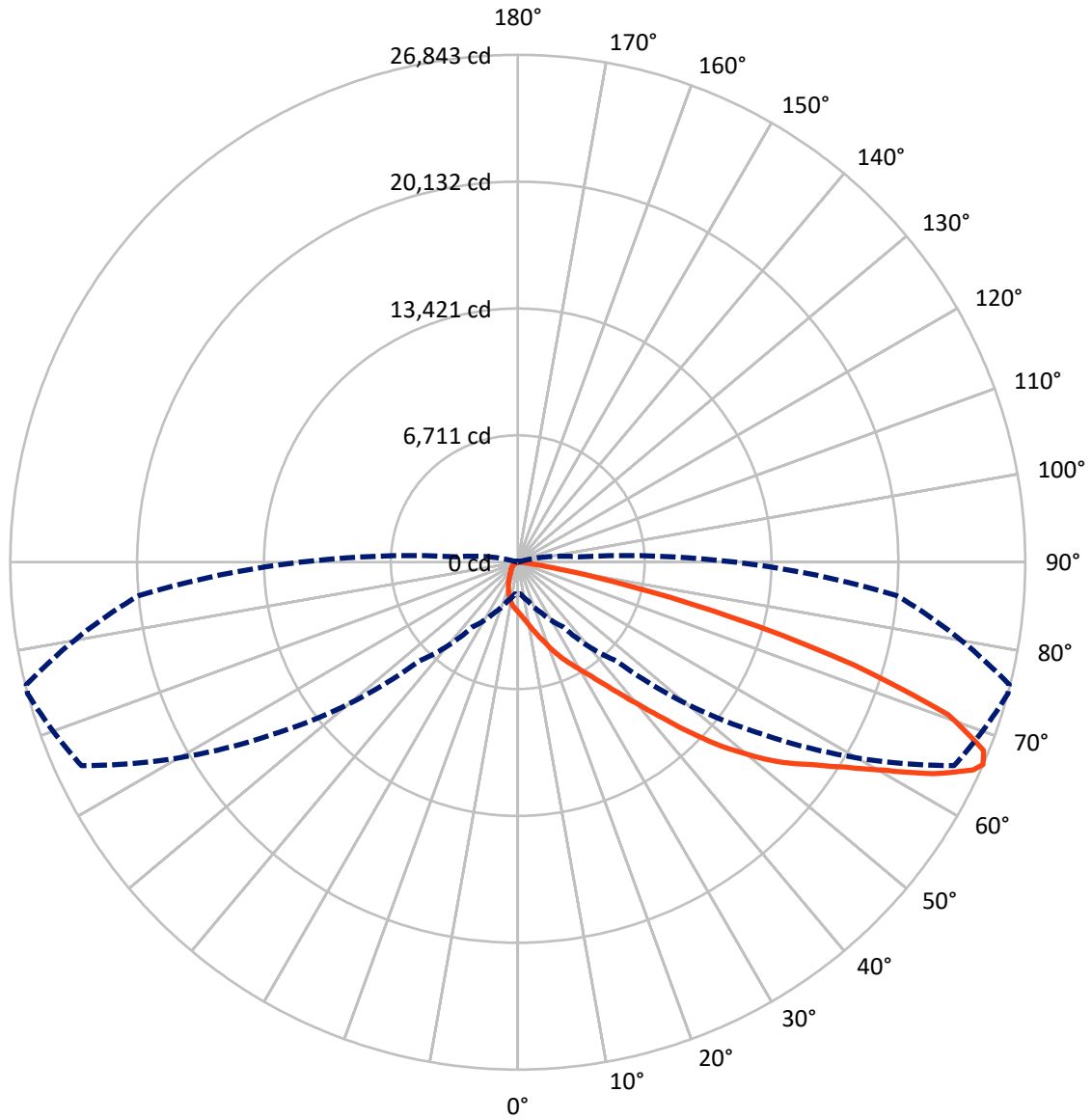
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1479.8	0.0	1479.8
	% Fixture	6.2	0.0	6.2
Street Side	Lumens	22490.2	0.0	22490.2
	% Fixture	93.8	0.0	93.8
Total	Lumens	23970.0	0.0	23970.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.8	1.1
10°-20°	744.1	3.1
20°-30°	1284.9	5.4
30°-40°	2317.7	9.7
40°-50°	4187.0	17.5
50°-60°	6527.5	27.2
60°-70°	6200.9	25.9
70°-80°	2323.9	9.7
80°-90°	131.1	0.5
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°	23970.0	100.0
0°-180°	23970.0	100.0

Coefficient of Utilization



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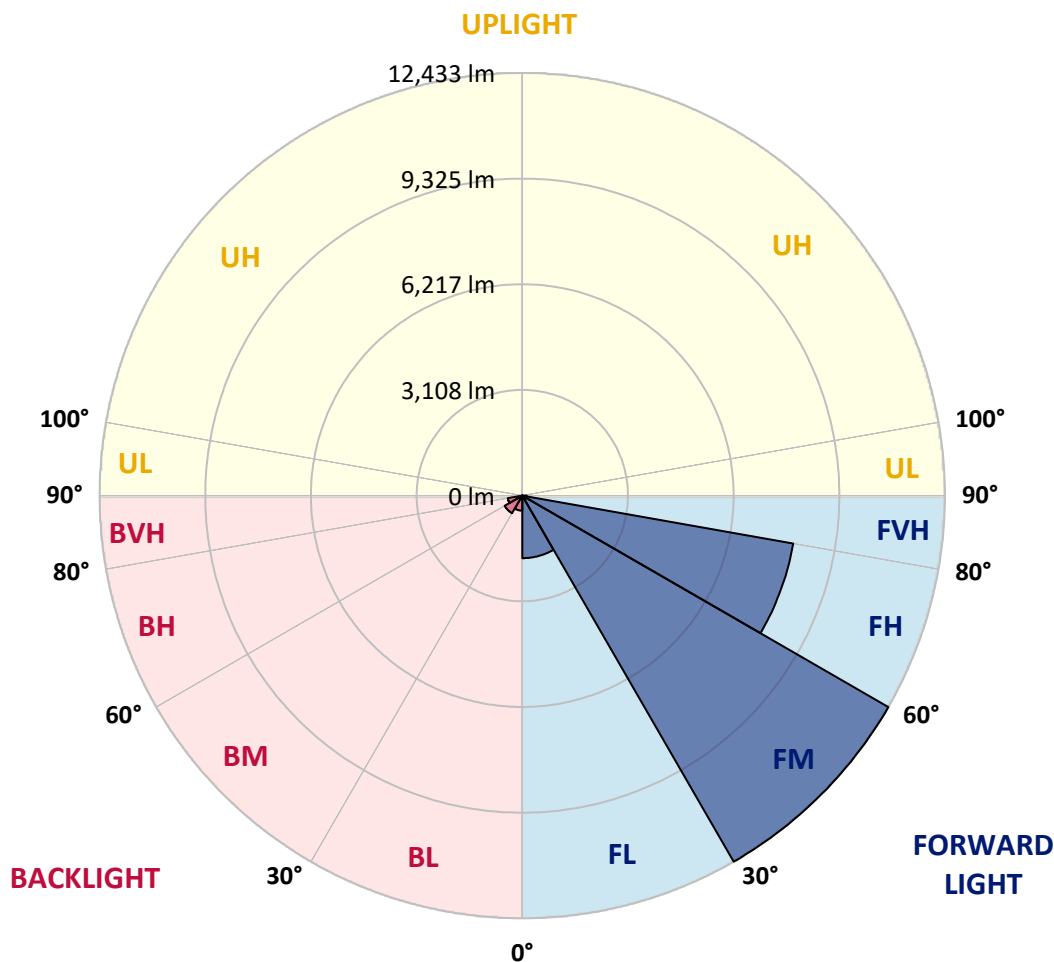
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1839.9	7.7			
FM	(30°-60°)	12433.2	51.9			
FH	(60°-80°)	8092.7	33.8			G4/12000
FVH	(80°-90°)	124.3	0.5			G2/225
BL	(0°-30°)	441.9	1.8	B1/500		
BM	(30°-60°)	599.0	2.5	B1/1000		
BH	(60°-80°)	432.1	1.8	B1/500		G1/500
BVH	(80°-90°)	6.8	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G4

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2621.4	2621.4	2621.4	2621.4	2621.4	2621.4	2621.4	2621.4	2621.4	2621.4	2621.4
2.5°	3131.8	3092.8	3105.2	3087.5	3046.7	2986.5	2933.3	2857.1	2780.9	2768.5	2683.4
5°	3544.8	3534.1	3520.0	3468.6	3440.2	3348.0	3238.1	3107.0	2949.2	2920.9	2766.7
7.5°	3826.6	3821.3	3828.4	3801.8	3777.0	3693.6	3576.7	3397.7	3153.1	3137.1	2880.1
10°	3918.7	3932.9	3959.5	4002.0	4041.0	4014.5	3925.8	3702.5	3417.2	3371.1	3009.5
12.5°	3865.6	3881.5	3945.3	4058.8	4184.6	4257.3	4221.8	4058.8	3697.2	3660.0	3154.8
15°	3729.1	3748.6	3839.0	4014.5	4239.5	4445.1	4533.8	4416.8	4023.3	3963.1	3330.3
17.5°	3527.0	3555.4	3684.8	3917.0	4225.4	4579.8	4829.7	4790.8	4370.7	4314.0	3521.7
20°	3374.6	3395.9	3505.8	3771.6	4165.1	4654.3	5111.6	5221.4	4799.6	4702.1	3746.8
22.5°	3475.6	3482.7	3520.0	3679.5	4057.0	4673.8	5359.7	5669.9	5255.1	5168.3	3980.8
25°	3970.1	3899.2	3862.0	3826.6	4033.9	4656.1	5584.8	6137.8	5708.8	5616.7	4213.0
27.5°	4750.0	4718.1	4530.2	4278.5	4230.7	4679.1	5733.7	6580.9	6136.0	6036.7	4439.8
30°	5599.0	5544.0	5428.8	5060.2	4689.7	4842.2	5841.8	7011.6	6641.1	6510.0	4647.2
32.5°	6378.8	6414.3	6242.3	5863.0	5434.1	5189.5	5981.8	7481.2	7220.7	7057.6	4888.2
35°	7288.0	7358.9	7094.9	6731.5	6229.9	5817.0	6254.7	8011.2	7956.2	7750.6	5260.4
37.5°	8211.5	8254.0	8092.7	7582.3	7130.3	6614.5	6768.7	8665.2	8861.9	8686.5	5705.3
40°	8987.8	9046.2	8927.5	8473.8	7991.7	7538.0	7514.9	9377.7	9939.5	9758.7	6368.2
42.5°	9581.5	9625.8	9629.4	9308.6	8874.3	8668.7	8466.7	10286.9	11290.1	11080.9	7137.4
45°	10331.2	10395.0	10357.8	10139.8	9815.5	9778.2	9673.7	11385.8	12906.5	12642.4	8135.2
47.5°	11490.4	11532.9	11440.7	11183.7	10854.1	10912.6	10850.5	12617.6	14554.8	14328.0	9168.5
50°	12295.0	12365.9	12497.1	12599.9	12360.6	12144.4	11960.0	13767.9	16119.8	15916.0	10224.9
52.5°	12286.2	12403.1	12817.9	13335.4	13858.3	13792.7	13262.8	15038.7	17614.0	17362.3	11217.4
55°	11458.5	11685.3	12295.0	13213.1	14661.2	15382.5	15141.5	16509.8	18904.3	18734.1	12367.7
57.5°	9749.9	9888.1	10735.3	12018.5	14212.8	16130.5	17318.0	18503.7	20451.5	20371.8	14154.3
60°	6557.8	6619.9	7709.9	9296.2	12100.1	15384.3	18913.1	20915.9	22356.9	22317.9	16240.4
62.5°	3757.5	3784.0	4574.5	5912.7	8610.2	13037.7	19047.8	23891.7	24641.5	24662.7	18654.3
65°	2022.3	2036.5	2674.5	3470.3	5239.2	9292.6	17128.3	25522.3	26488.3	26529.0	20150.2
66°	1745.8	1678.4	2128.6	2958.1	4168.6	7396.2	15914.2	25463.8	26842.8	26798.5	20097.1
67.5°	1327.5	1387.8	1699.7	2274.0	3089.3	5258.7	13138.7	24331.3	26573.4	26435.1	19280.0
70°	950.0	974.8	1210.5	1621.7	2103.8	2885.4	8395.8	20208.7	24152.3	23966.2	16796.9
72.5°	613.2	639.8	857.8	1173.3	1520.7	1575.6	4700.4	14600.9	18620.7	18594.1	12649.5
75°	437.8	462.6	567.2	840.1	1143.2	974.8	2263.3	9840.3	11837.8	11758.0	7825.1
77.5°	317.3	329.7	379.3	549.4	817.1	698.3	1049.3	5255.1	5893.2	6171.4	3457.9
80°	182.6	193.2	264.1	335.0	553.0	476.8	501.6	2109.1	2174.7	2070.1	1081.2
82.5°	90.4	102.8	157.7	228.6	345.6	320.8	230.4	634.5	670.0	652.2	272.9
85°	21.3	26.6	88.6	150.7	168.4	143.6	111.7	186.1	230.4	225.1	104.6
87.5°	1.8	3.5	31.9	26.6	28.4	47.9	39.0	47.9	74.4	69.1	37.2
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°	2621.4	2621.4	2621.4	2621.4	2621.4	2621.4	2621.4	2621.4	2621.4	2621.4	2621.4
2.5°	2644.4	2610.7	2513.2	2417.5	2337.8	2254.5	2178.3	2134.0	2116.2	2096.7	2105.6
5°	2681.6	2600.1	2403.4	2233.2	2066.6	1924.8	1811.4	1738.7	1703.3	1697.9	1689.1
7.5°	2731.2	2591.2	2286.4	2020.5	1802.5	1644.8	1515.4	1410.8	1378.9	1350.6	1327.5
10°	2791.5	2575.3	2141.0	1797.2	1565.0	1366.5	1196.4	1072.3	1008.5	990.8	1003.2
12.5°	2855.3	2545.1	1988.6	1591.6	1324.0	1070.5	912.8	850.7	833.0	825.9	827.7
15°	2919.1	2507.9	1829.1	1393.1	1054.6	854.3	781.6	765.7	758.6	755.0	751.5
17.5°	2977.6	2447.7	1650.1	1199.9	854.3	730.2	703.6	689.5	675.3	670.0	661.1
20°	3046.7	2378.5	1488.8	983.7	723.1	661.1	629.2	602.6	581.3	567.2	565.4
22.5°	3112.3	2289.9	1320.4	815.3	659.3	593.7	542.3	514.0	489.2	471.5	476.8
25°	3147.8	2181.8	1169.8	710.7	600.8	526.4	469.7	434.2	407.6	398.8	397.0
27.5°	3147.8	2048.9	1022.7	650.5	547.7	466.1	407.6	374.0	356.2	343.8	345.6
30°	3122.9	1901.8	886.2	604.4	501.6	413.0	358.0	327.9	313.7	304.9	303.1
32.5°	3103.4	1761.8	769.2	560.1	453.7	366.9	319.0	296.0	281.8	272.9	272.9
35°	3133.6	1641.2	678.8	515.8	409.4	331.4	288.9	267.6	253.5	246.4	244.6
37.5°	3213.3	1531.3	609.7	467.9	368.7	301.3	267.6	242.8	228.6	219.8	216.2
40°	3410.1	1469.3	558.3	423.6	329.7	276.5	242.8	219.8	202.1	193.2	191.4
42.5°	3725.6	1471.1	508.7	382.8	299.5	255.2	221.5	195.0	175.5	166.6	164.8
45°	4200.6	1538.4	469.7	343.8	272.9	232.2	198.5	170.1	152.4	143.6	143.6
47.5°	4769.5	1669.6	436.0	310.2	248.1	210.9	175.5	147.1	129.4	122.3	122.3
50°	5386.3	1839.7	402.3	274.7	226.9	187.9	150.7	127.6	113.4	108.1	108.1
52.5°	6015.5	2045.3	368.7	246.4	203.8	163.1	129.4	113.4	101.0	97.5	95.7
55°	6841.4	2307.6	333.2	216.2	179.0	140.0	115.2	99.3	85.1	79.8	78.0
57.5°	8112.2	2702.9	294.2	189.6	147.1	117.0	99.3	83.3	67.4	58.5	56.7
60°	9645.3	3185.0	253.5	166.6	118.7	95.7	79.8	63.8	49.6	39.0	37.2
62.5°	11080.9	3491.6	214.5	140.0	93.9	72.7	56.7	47.9	35.4	24.8	23.0
65°	11715.5	3388.8	177.2	113.4	74.4	51.4	37.2	33.7	21.3	10.6	8.9
66°	11504.5	3236.4	163.1	102.8	67.4	44.3	31.9	28.4	16.0	5.3	5.3
67.5°	10882.4	2876.6	141.8	88.6	58.5	35.4	24.8	21.3	8.9	1.8	0.0
70°	9324.5	2327.1	111.7	65.6	42.5	24.8	14.2	10.6	5.3	0.0	0.0
72.5°	7162.2	1733.4	88.6	49.6	30.1	14.2	7.1	3.5	5.3	0.0	0.0
75°	4388.4	990.8	69.1	37.2	19.5	8.9	5.3	0.0	5.3	1.8	0.0
77.5°	1947.9	444.9	46.1	24.8	14.2	7.1	3.5	0.0	3.5	1.8	0.0
80°	492.7	145.3	26.6	17.7	10.6	5.3	1.8	0.0	3.5	3.5	1.8
82.5°	134.7	53.2	19.5	14.2	8.9	5.3	1.8	0.0	3.5	3.5	3.5
85°	53.2	24.8	17.7	14.2	10.6	5.3	1.8	0.0	3.5	3.5	3.5
87.5°	24.8	17.7	17.7	16.0	12.4	5.3	1.8	0.0	3.5	1.8	3.5
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)