

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: P534063

Luminaire Tested: **GALN-SA9C-735-U-T2-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P534063
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-13)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA9C-735-U-T2-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3500K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35023 lumens
Efficiency: N/A
Efficacy: 72.8 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

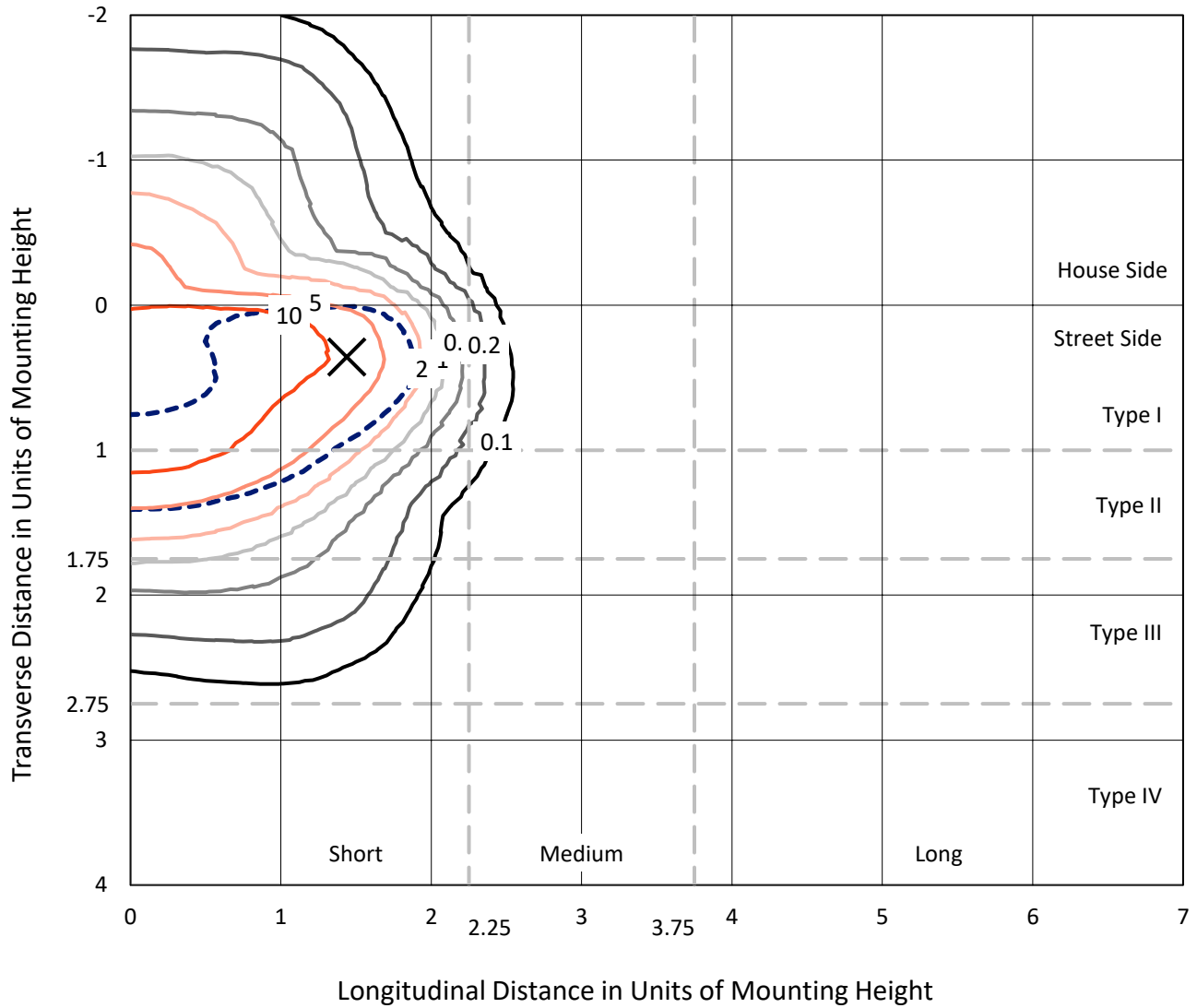
Input Watts (W): 481
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

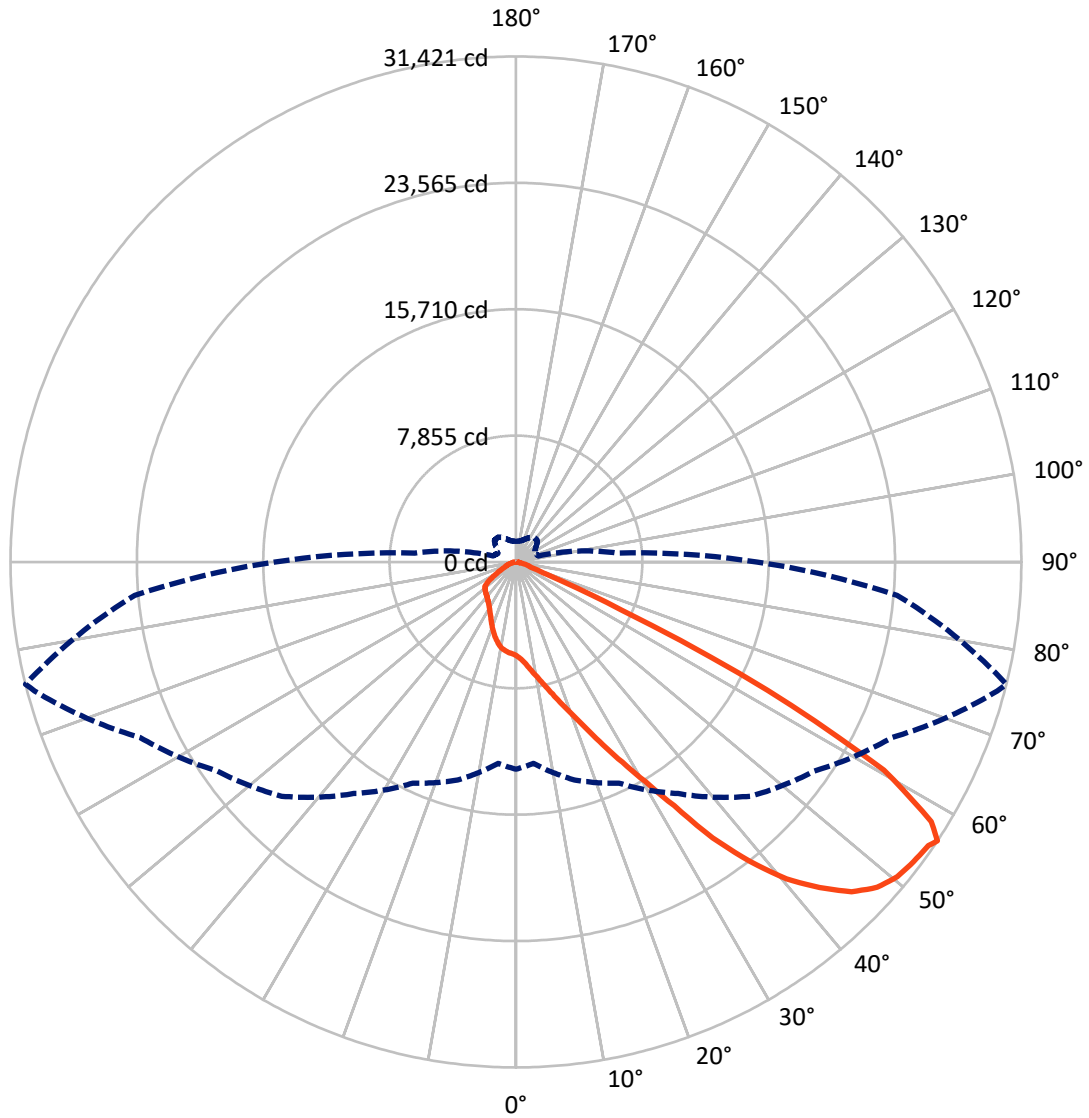
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 56-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5501.9	0.0	5501.9
	% Fixture	15.7	0.0	15.7
Street Side	Lumens	29521.1	0.0	29521.1
	% Fixture	84.3	0.0	84.3
Total	Lumens	35023.0	0.0	35023.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	587.3	1.7
10°-20°	1886.6	5.4
20°-30°	3421.0	9.8
30°-40°	5899.6	16.8
40°-50°	9584.1	27.4
50°-60°	10102.0	28.8
60°-70°	3086.6	8.8
70°-80°	395.7	1.1
80°-90°	60.1	0.2
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°	35023.0	100.0
0°-180°	35023.0	100.0

Coefficient of Utilization



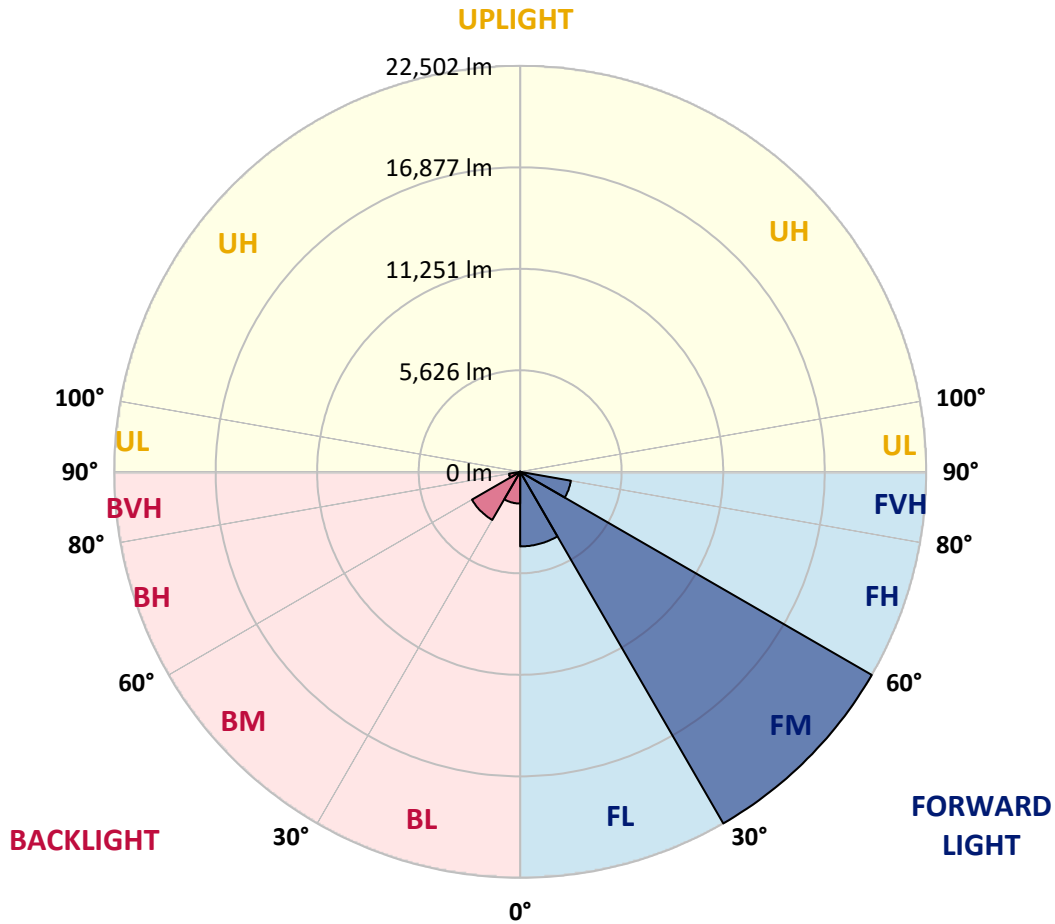
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4134.8	11.8			
FM (30°-60°)	22502.2	64.2			
FH (60°-80°)	2854.6	8.2			G2/5000
FVH (80°-90°)	29.5	0.1			G1/100
BL (0°-30°)	1760.1	5.0	B3/2500		
BM (30°-60°)	3083.5	8.8	B3/5000		
BH (60°-80°)	627.7	1.8	B2/1000		G2/1000
BVH (80°-90°)	30.7	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	5829.6	5829.6	5829.6	5829.6	5829.6	5829.6	5829.6	5829.6	5829.6	5829.6	5829.6
2.5°	6714.1	6559.1	6565.6	6552.7	6533.3	6462.3	6249.3	6217.0	6075.0	6036.2	5907.1
5°	7521.1	7385.5	7463.0	7346.8	7237.0	7172.4	6823.8	6662.4	6436.5	6352.6	6171.8
7.5°	8024.6	7960.1	7934.2	7940.7	7837.4	7676.0	7521.1	7166.0	6862.6	6798.0	6417.1
10°	8269.9	8231.2	8269.9	8250.6	8295.8	8315.1	8044.0	7830.9	7385.5	7275.7	6681.8
12.5°	8328.0	8405.5	8437.8	8521.7	8631.5	8818.7	8799.3	8508.8	7914.9	7843.9	7088.5
15°	8470.1	8534.6	8502.4	8637.9	8844.5	9160.8	9328.7	9283.5	8644.4	8515.3	7559.8
17.5°	8599.2	8483.0	8592.7	8863.9	9070.5	9554.7	9961.4	10148.6	9438.5	9290.0	7992.3
20°	8773.5	8741.2	8721.9	8857.4	9225.4	9871.0	10678.0	11020.1	10329.4	10174.4	8612.1
22.5°	9302.9	9309.3	9296.4	9096.3	9361.0	10090.5	11304.2	12149.9	11394.6	11265.5	9315.8
25°	10000.1	9916.2	9851.6	9690.2	9657.9	10290.6	11936.9	13531.5	12672.8	12582.4	10077.6
27.5°	10736.1	10736.1	10542.4	10393.9	10187.3	10787.7	12517.9	14874.3	14215.8	14093.1	10742.5
30°	11536.6	11581.8	11556.0	11239.6	11110.5	11330.0	13111.8	16591.5	15984.7	15829.7	11840.0
32.5°	12718.0	12621.2	12730.9	12466.2	12085.3	12279.0	14047.9	18128.0	18283.0	18063.5	13279.7
35°	14280.3	14222.2	14151.2	13718.7	13266.8	13421.7	15371.4	20019.6	21168.7	21059.0	14732.2
37.5°	15681.3	15649.0	15590.9	15293.9	14771.0	14958.2	16875.6	21988.6	23983.5	23621.9	16785.2
40°	17153.2	17327.5	17140.3	16875.6	16397.9	16811.0	18644.5	23157.1	26352.8	25913.8	18354.0
42.5°	19148.0	19012.5	19096.4	18612.2	18354.0	18805.9	20419.8	24325.6	28192.7	27669.8	20019.6
45°	21272.0	21278.5	21052.5	20897.6	20226.2	20716.8	21510.9	24971.2	29658.2	29251.4	21278.5
47.5°	22634.2	22627.7	22873.1	23118.4	22427.6	21943.4	22253.3	25584.5	30413.5	30226.3	21736.8
50°	22421.2	22485.7	22802.1	23718.8	24080.3	23428.3	22950.5	25403.8	30755.7	30736.3	22130.6
52.5°	19503.1	19716.2	20245.5	21569.0	23389.5	24196.5	23680.1	25739.5	30923.5	30955.8	22718.1
55°	14848.5	14964.7	15971.8	17579.3	19593.5	22356.6	23389.5	26004.2	31052.6	31110.7	23428.3
56°	12879.4	12569.5	14022.1	15164.8	17572.8	20594.2	22653.6	25797.6	30975.2	31420.6	23783.3
57.5°	9722.5	9515.9	10690.9	12117.6	14435.3	17624.5	20368.2	24822.7	30452.2	30445.8	23273.3
60°	5913.6	5707.0	6610.8	7450.0	8747.7	10852.3	13763.9	19767.8	25745.9	26288.2	18844.6
62.5°	3518.4	3647.6	4538.5	5048.5	5468.1	5687.6	7120.8	11749.6	17179.0	17566.4	11691.5
65°	2343.5	2388.7	3060.1	3899.3	4086.6	3253.7	2898.7	4758.0	7450.0	7211.2	4822.5
67.5°	1446.1	1549.4	2053.0	2931.0	3247.3	2375.8	1375.1	1775.4	2053.0	2053.0	1394.5
70°	878.0	929.6	1368.6	1994.9	2227.3	1530.0	1000.7	1000.7	987.7	968.4	832.8
72.5°	419.6	451.9	697.2	1026.5	1045.8	807.0	774.7	845.7	826.3	819.9	690.8
75°	180.8	193.7	245.3	322.8	368.0	342.2	471.3	606.8	626.2	606.8	497.1
77.5°	58.1	64.6	90.4	116.2	122.7	148.5	200.1	251.8	290.5	271.1	245.3
80°	6.5	12.9	25.8	58.1	90.4	116.2	148.5	167.9	187.2	187.2	174.3
82.5°	6.5	6.5	25.8	51.6	83.9	109.7	142.0	161.4	187.2	193.7	180.8
85°	0.0	6.5	19.4	45.2	71.0	71.0	64.6	64.6	45.2	45.2	45.2
87.5°	0.0	0.0	6.5	6.5	6.5	12.9	12.9	12.9	12.9	12.9	12.9
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°	5829.6	5829.6	5829.6	5829.6	5829.6	5829.6	5829.6	5829.6	5829.6	5829.6	5829.6
2.5°	5881.3	5868.4	5694.1	5584.3	5526.2	5410.0	5339.0	5287.3	5248.6	5203.4	5209.9
5°	5958.7	5913.6	5623.0	5422.9	5184.0	5054.9	4945.2	4854.8	4796.7	4783.8	4758.0
7.5°	6178.2	5939.4	5500.4	5138.9	4835.4	4706.3	4609.5	4551.4	4577.2	4519.1	4564.3
10°	6346.1	5991.0	5351.9	4829.0	4525.5	4428.7	4377.1	4422.3	4486.8	4461.0	4428.7
12.5°	6552.7	6042.7	5113.0	4532.0	4247.9	4176.9	4267.3	4351.2	4480.4	4532.0	4467.4
15°	6785.1	6100.8	4809.6	4189.8	4009.1	4067.2	4222.1	4370.6	4499.7	4564.3	4603.0
17.5°	7069.2	6081.4	4512.6	3918.7	3783.1	3951.0	4138.2	4273.8	4467.4	4564.3	4538.5
20°	7333.8	6016.9	4183.4	3647.6	3654.0	3809.0	3963.9	4183.4	4286.7	4415.8	4370.6
22.5°	7585.6	5900.6	3841.2	3460.3	3460.3	3699.2	3776.7	3918.7	4009.1	4073.6	4067.2
25°	7940.7	5681.1	3557.2	3279.6	3357.0	3512.0	3576.5	3621.7	3583.0	3634.6	3641.1
27.5°	8192.5	5455.2	3324.8	3118.2	3260.2	3376.4	3357.0	3331.2	3240.8	3169.8	3215.0
30°	8463.6	5190.5	3124.6	3008.4	3085.9	3189.2	3111.7	3034.2	2892.2	2776.0	2782.5
32.5°	8851.0	5067.8	2950.3	2879.3	2982.6	2995.5	2911.6	2795.4	2653.4	2543.6	2537.1
35°	9574.0	4990.4	2801.8	2795.4	2814.7	2821.2	2737.3	2595.3	2537.1	2446.8	2479.0
37.5°	10297.1	4951.6	2698.5	2672.7	2666.3	2672.7	2575.9	2440.3	2550.1	2543.6	2556.5
40°	11220.3	5125.9	2550.1	2517.8	2524.2	2524.2	2401.6	2362.8	2556.5	2575.9	2582.3
42.5°	12156.4	5345.4	2453.2	2349.9	2375.8	2375.8	2311.2	2266.0	2401.6	2272.5	2253.1
45°	12969.8	5668.2	2349.9	2182.1	2246.6	2278.9	2259.5	2182.1	2098.2	1878.7	1878.7
47.5°	13234.5	5952.3	2227.3	2020.7	2072.3	2214.4	2156.3	1994.9	1846.4	1665.6	1652.7
50°	13699.3	6262.2	2130.4	1833.5	1943.2	2117.5	2059.4	1898.0	1730.2	1601.1	1607.5
52.5°	14177.0	6617.2	1949.7	1614.0	1749.5	2040.0	2040.0	1859.3	1601.1	1510.7	1497.8
55°	14893.6	6604.3	1626.9	1323.4	1562.3	1923.8	1956.1	1665.6	1433.2	1362.2	1362.2
56°	14996.9	6307.4	1465.5	1239.5	1478.4	1891.6	1898.0	1614.0	1368.6	1291.2	1291.2
57.5°	14222.2	5694.1	1284.7	1136.2	1375.1	1833.5	1839.9	1568.8	1317.0	1207.2	1194.3
60°	10942.7	3854.1	1071.7	1013.6	1246.0	1652.7	1685.0	1426.7	1155.6	1071.7	1065.2
62.5°	6178.2	2136.9	942.6	916.7	1071.7	1407.4	1504.2	1246.0	981.3	936.1	949.0
65°	2821.2	1175.0	794.1	742.4	865.1	1084.6	1213.7	1026.5	807.0	755.3	755.3
67.5°	1032.9	800.5	677.9	587.5	606.8	703.7	787.6	665.0	535.8	458.4	477.7
70°	736.0	671.4	593.9	510.0	471.3	458.4	451.9	374.4	264.7	206.6	219.5
72.5°	593.9	555.2	497.1	432.5	368.0	309.9	264.7	193.7	122.7	83.9	77.5
75°	426.1	406.7	361.5	309.9	258.2	219.5	180.8	122.7	64.6	32.3	32.3
77.5°	219.5	219.5	213.0	193.7	161.4	129.1	103.3	71.0	38.7	12.9	12.9
80°	167.9	180.8	187.2	167.9	148.5	116.2	83.9	51.6	25.8	6.5	6.5
82.5°	161.4	187.2	200.1	174.3	148.5	109.7	83.9	51.6	25.8	6.5	6.5
85°	38.7	38.7	58.1	64.6	83.9	90.4	71.0	45.2	19.4	6.5	6.5
87.5°	12.9	12.9	12.9	12.9	12.9	12.9	6.5	6.5	6.5	6.5	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)