

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: P530281

Luminaire Tested: **GALN-SA5C-730-U-AFL-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P530281
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-27)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA5C-730-U-AFL-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23919 lumens
Efficiency: N/A
Efficacy: 88.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

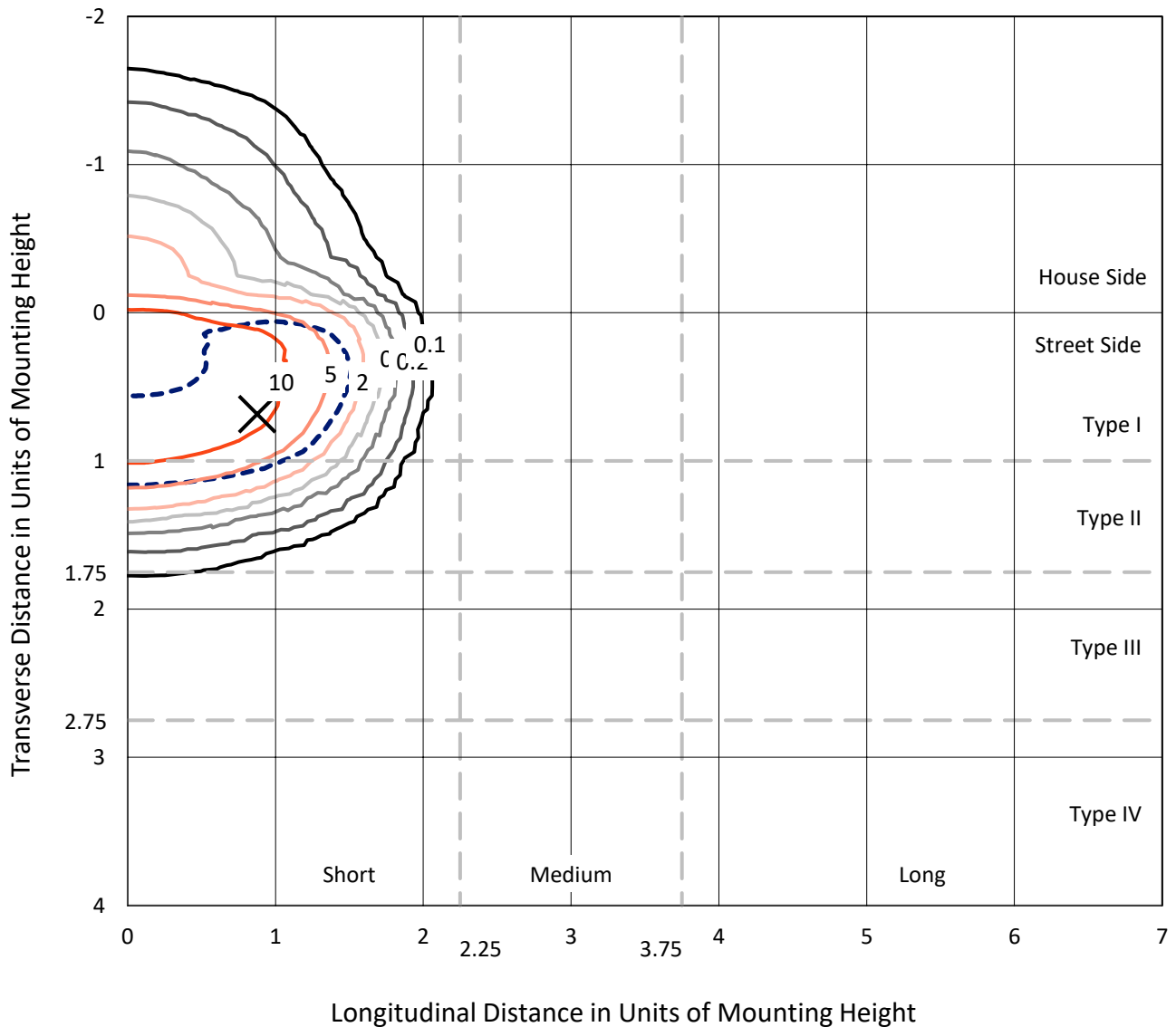
Input Watts (W): 269
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

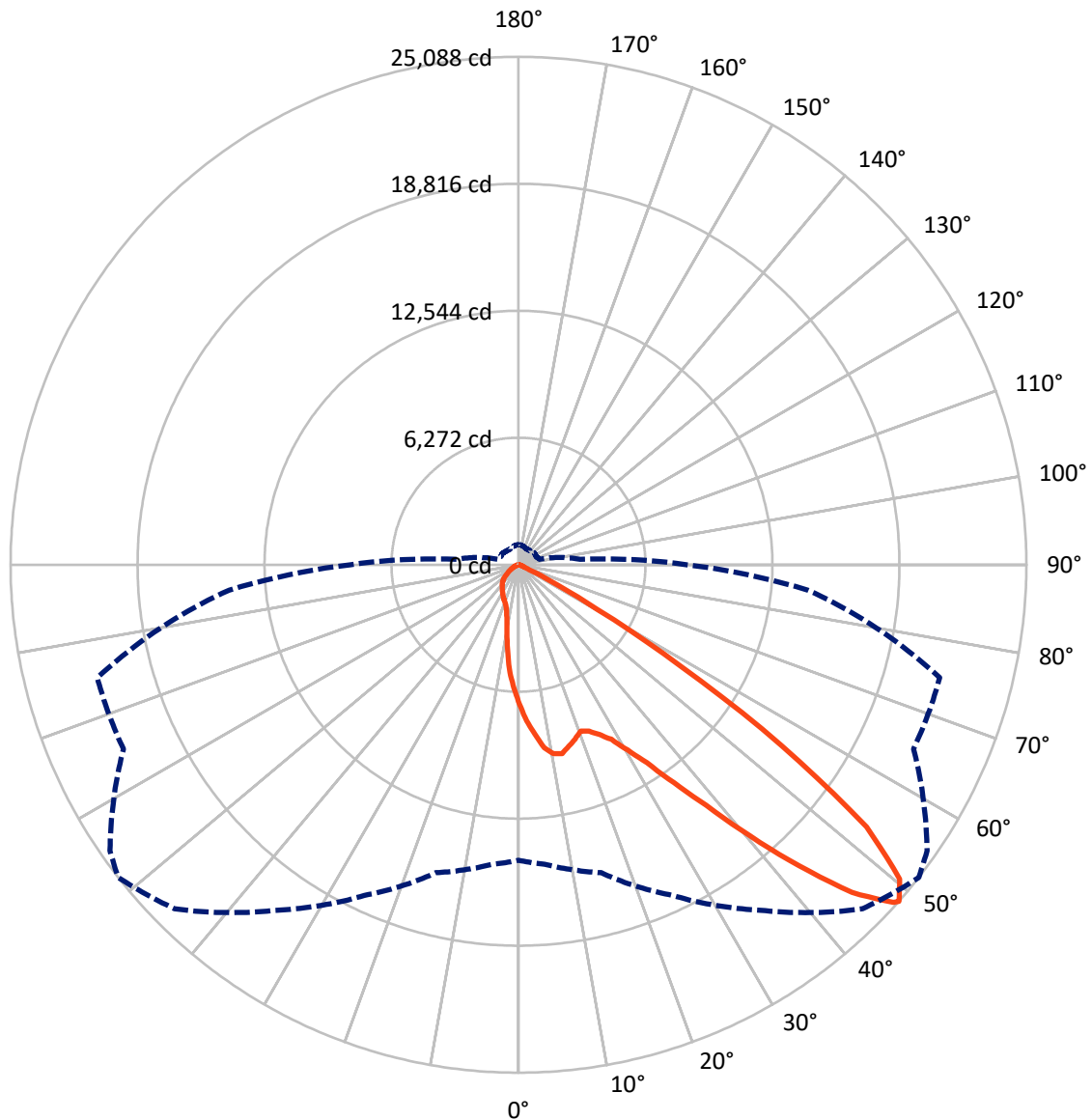
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 52-Deg Lateral - - - Horizontal Cone Through 48-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2912.3	0.0	2912.3
	% Fixture	12.2	0.0	12.2
Street Side	Lumens	21006.7	0.0	21006.7
	% Fixture	87.8	0.0	87.8
Total	Lumens	23919.0	0.0	23919.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	632.2	2.6
10°-20°	1652.2	6.9
20°-30°	2821.0	11.8
30°-40°	5194.9	21.7
40°-50°	8067.7	33.7
50°-60°	4855.4	20.3
60°-70°	561.6	2.3
70°-80°	108.7	0.5
80°-90°	25.1	0.1
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°	23919.0	100.0
0°-180°	23919.0	100.0

Coefficient of Utilization



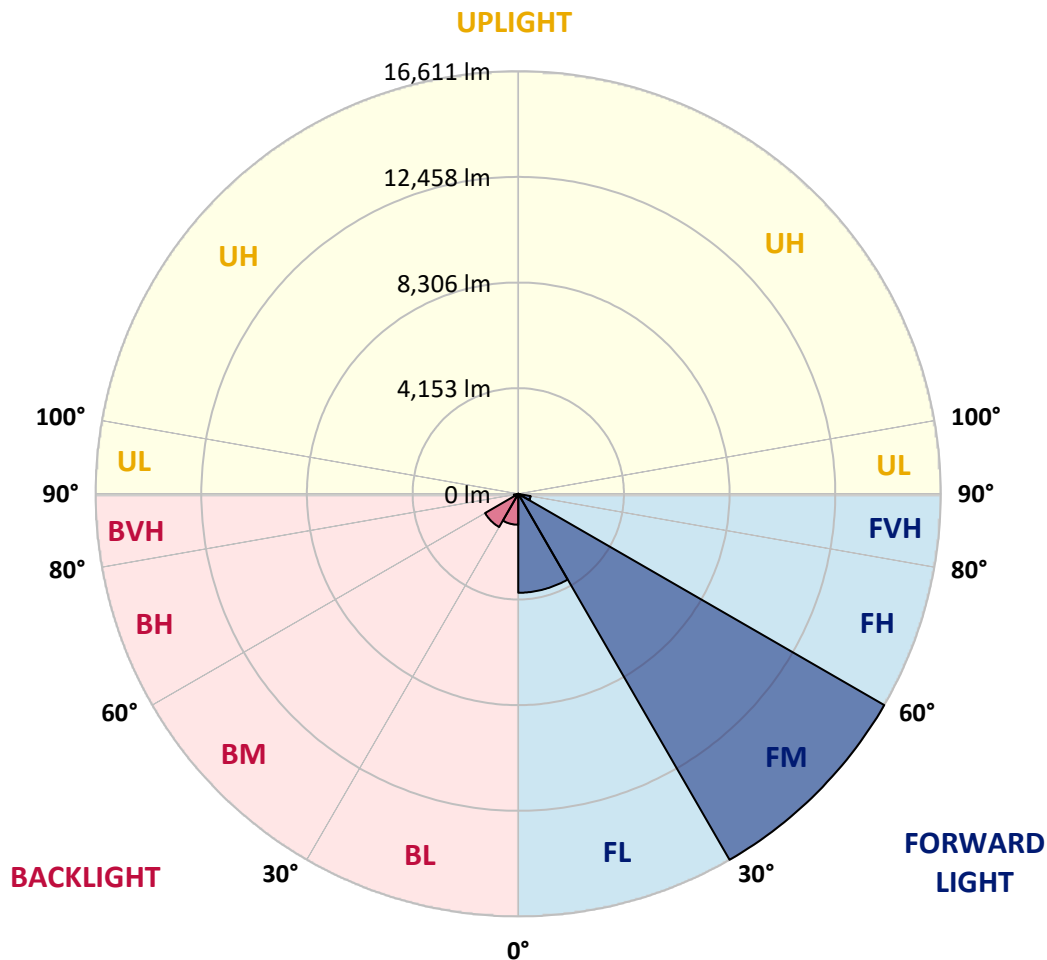
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3888.9	16.3			
FM (30°-60°)	16611.3	69.4			
FH (60°-80°)	494.5	2.1			G0/660
FVH (80°-90°)	12.0	0.1			G1/100
BL (0°-30°)	1216.6	5.1	B3/2500		
BM (30°-60°)	1506.8	6.3	B2/2500		
BH (60°-80°)	175.8	0.7	B1/500		G1/500
BVH (80°-90°)	13.2	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	52°	55°	65°	75°	85°
0°	6907.4	6907.4	6907.4	6907.4	6907.4	6907.4	6907.4	6907.4	6907.4	6907.4	6907.4
2.5°	8371.9	8180.1	8197.5	8072.0	7998.8	7880.2	7719.8	7688.5	7514.1	7277.0	7036.4
5°	9125.0	9079.7	9139.0	8957.7	8964.6	8769.4	8392.8	8399.8	7998.8	7611.7	7238.7
7.5°	9173.8	9069.2	9128.5	9288.9	9383.1	9348.2	9135.5	8950.7	8570.6	8002.3	7458.3
10°	8215.0	8413.7	8476.5	8741.5	9118.1	9515.6	9491.2	9501.6	9184.3	8441.6	7646.6
12.5°	7639.6	7507.1	7719.8	7880.2	8448.6	9219.2	9571.3	9648.1	9672.5	8867.0	7834.9
15°	7378.1	7378.1	7413.0	7458.3	7869.8	8581.1	9299.4	9522.5	10049.0	9424.9	8131.3
17.5°	7542.0	7535.0	7583.9	7489.7	7643.1	8190.6	9048.3	9302.9	10471.0	9972.3	8364.9
20°	8040.6	8065.0	8033.7	7761.7	7772.1	8183.6	8769.4	9170.4	10756.9	10446.5	8675.2
22.5°	8734.5	8748.5	8570.6	8274.2	8187.1	8389.3	8929.8	9236.6	10987.0	11014.9	8769.4
25°	9536.5	9480.7	9445.8	9027.4	8762.4	8936.7	9292.4	9470.2	11130.0	11503.1	9037.9
27.5°	10648.8	10537.2	10324.5	9951.4	9756.1	9508.6	9763.1	10056.0	11537.9	12186.5	9330.8
30°	12291.1	12193.4	11778.5	11297.3	10784.8	10540.7	10620.9	10781.3	12273.6	12978.0	9717.8
32.5°	14763.2	14557.5	13957.8	13040.7	12343.4	11670.4	11649.5	11820.4	12932.7	14072.8	10178.1
35°	17486.5	17423.7	16541.5	15596.6	14247.2	13208.1	13225.5	13316.2	14194.9	15509.4	10781.3
37.5°	19296.1	19641.3	19079.9	18065.3	16932.0	15446.7	15070.1	15101.5	15927.8	17211.0	11869.2
40°	20694.3	20401.4	20467.7	20230.6	19456.5	18445.3	17612.0	17448.1	17932.8	19093.9	12950.1
42.5°	20084.1	20098.1	20506.0	21067.4	21259.2	21186.0	20335.2	20024.9	19648.3	20635.1	13978.7
45°	18361.6	18720.8	19250.8	20736.2	22040.3	23264.1	23096.8	22580.7	20833.8	21855.4	14571.5
47.5°	15614.0	15600.1	16468.3	18400.0	21297.6	24163.7	24923.9	24561.2	21674.1	21719.5	14449.4
48°	14599.4	14850.4	15746.5	18019.9	20826.8	24031.2	25087.7	24631.0	21531.2	21538.1	14344.8
50°	10791.7	10746.4	11862.2	14651.7	18602.2	22580.7	24397.3	24753.0	21527.7	20621.1	13612.6
52.5°	5701.0	5896.2	6708.7	9212.2	13152.3	18480.2	21520.7	22075.1	20767.6	19121.8	12559.6
55°	2423.3	2189.7	2813.9	4159.8	7399.1	12346.9	15788.4	17022.7	17559.7	16921.6	10987.0
57.5°	864.7	944.9	1087.9	1565.6	3110.3	6757.5	9414.4	10373.3	12165.5	12416.6	7486.2
60°	554.4	564.9	610.2	718.3	1168.1	2604.7	4466.6	5230.2	6042.7	6237.9	3493.8
62.5°	428.9	432.4	453.3	470.7	554.4	1011.2	1677.2	1987.5	2064.2	1774.8	917.0
65°	359.1	362.6	369.6	369.6	394.0	474.2	585.8	645.1	627.6	620.7	519.5
67.5°	275.5	282.4	296.4	296.4	310.3	289.4	324.3	345.2	390.5	474.2	442.8
70°	216.2	219.7	230.1	237.1	237.1	209.2	233.6	254.5	285.9	352.2	348.7
72.5°	167.4	174.3	181.3	181.3	170.9	143.0	167.4	184.8	205.7	244.1	237.1
75°	129.0	129.0	132.5	108.1	83.7	73.2	101.1	122.0	153.4	160.4	132.5
77.5°	34.9	38.4	34.9	31.4	34.9	52.3	66.2	76.7	97.6	97.6	87.2
80°	0.0	3.5	10.5	20.9	34.9	48.8	59.3	66.2	76.7	83.7	80.2
82.5°	0.0	3.5	10.5	20.9	31.4	38.4	52.3	55.8	62.8	73.2	73.2
85°	0.0	3.5	7.0	13.9	20.9	24.4	24.4	20.9	20.9	17.4	13.9
87.5°	0.0	0.0	3.5	7.0	7.0	10.5	10.5	10.5	10.5	10.5	10.5
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°	6907.4	6907.4	6907.4	6907.4	6907.4	6907.4	6907.4	6907.4	6907.4	6907.4	6907.4
2.5°	6942.3	6834.2	6670.3	6412.3	6164.7	6004.3	5850.9	5680.0	5585.9	5578.9	5526.6
5°	7026.0	6781.9	6391.4	5948.5	5474.3	5066.4	4654.9	4386.4	4145.8	4013.3	3988.9
7.5°	7071.3	6754.0	6122.9	5380.2	4571.2	3905.2	3445.0	3106.8	2974.3	2876.6	2873.1
10°	7165.4	6705.2	5721.9	4627.0	3626.3	2953.3	2636.0	2482.6	2409.4	2381.5	2339.7
12.5°	7235.2	6614.5	5310.4	3852.9	2866.2	2447.8	2308.3	2273.4	2276.9	2290.8	2273.4
15°	7332.8	6534.3	4756.0	3162.6	2405.9	2203.7	2203.7	2210.7	2259.5	2266.4	2263.0
17.5°	7325.8	6377.4	4184.2	2604.7	2127.0	2099.1	2109.5	2175.8	2207.2	2217.6	2193.2
20°	7409.5	6231.0	3594.9	2224.6	1970.1	2011.9	2081.6	2099.1	2137.4	2144.4	2116.5
22.5°	7385.1	5864.8	3047.5	1924.7	1851.5	1931.7	2001.4	2022.4	2011.9	1991.0	1987.5
25°	7339.8	5551.0	2545.4	1726.0	1764.3	1851.5	1917.8	1879.4	1858.5	1862.0	1865.5
27.5°	7259.6	5153.5	2130.5	1586.5	1645.8	1774.8	1771.3	1757.4	1778.3	1760.8	1778.3
30°	7245.6	4756.0	1788.7	1461.0	1558.6	1652.8	1659.7	1684.1	1708.5	1677.2	1708.5
32.5°	7266.6	4320.2	1544.7	1384.3	1506.3	1509.8	1586.5	1610.9	1593.5	1523.7	1530.7
35°	7426.9	3985.4	1366.8	1342.4	1422.6	1426.1	1499.3	1468.0	1391.2	1349.4	1373.8
37.5°	7765.2	3706.5	1283.2	1304.1	1311.0	1356.4	1359.9	1297.1	1304.1	1300.6	1314.5
40°	8197.5	3493.8	1223.9	1269.2	1262.2	1293.6	1168.1	1203.0	1234.3	1244.8	1251.8
42.5°	8493.9	3340.4	1185.5	1213.4	1199.5	1143.7	1073.9	1108.8	1133.2	1171.6	1178.5
45°	8626.4	3218.3	1140.2	1115.8	1115.8	1014.7	986.8	993.7	1049.5	1091.4	1084.4
47.5°	8410.2	3099.8	1060.0	986.8	1011.2	927.5	896.1	896.1	955.4	1007.7	997.2
48°	8326.5	3051.0	1063.5	958.9	976.3	913.5	882.2	875.2	941.4	990.3	990.3
50°	7911.6	2869.7	972.8	882.2	847.3	840.3	819.4	826.4	868.2	913.5	913.5
52.5°	7102.7	2479.1	822.9	756.6	693.9	735.7	746.2	732.2	753.2	795.0	791.5
55°	5927.6	1903.8	659.0	627.6	578.8	624.1	645.1	627.6	606.7	638.1	638.1
57.5°	3797.2	1025.1	526.5	533.5	484.7	530.0	547.4	505.6	467.2	491.6	488.2
60°	1712.0	613.7	432.4	421.9	390.5	442.8	470.7	421.9	369.6	387.0	404.5
62.5°	641.6	435.9	327.8	320.8	313.8	362.6	376.6	338.2	285.9	296.4	299.9
65°	470.7	383.6	261.5	237.1	251.1	285.9	278.9	240.6	205.7	205.7	212.7
67.5°	401.0	334.7	212.7	184.8	184.8	188.3	174.3	153.4	143.0	149.9	156.9
70°	313.8	265.0	167.4	143.0	129.0	115.1	101.1	97.6	87.2	97.6	94.1
72.5°	202.2	177.8	129.0	108.1	97.6	80.2	66.2	62.8	52.3	48.8	48.8
75°	108.1	108.1	101.1	87.2	76.7	62.8	52.3	41.8	27.9	20.9	20.9
77.5°	76.7	83.7	90.7	83.7	69.7	52.3	41.8	27.9	13.9	7.0	7.0
80°	73.2	83.7	90.7	80.2	69.7	52.3	38.4	20.9	10.5	3.5	3.5
82.5°	66.2	76.7	83.7	73.2	62.8	45.3	34.9	20.9	10.5	3.5	3.5
85°	13.9	17.4	20.9	20.9	24.4	31.4	24.4	17.4	7.0	3.5	3.5
87.5°	10.5	10.5	10.5	10.5	10.5	10.5	7.0	7.0	3.5	3.5	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)