

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: P651004

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

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P651004
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-25)
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-AFL-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33740.9 lumens
Efficiency: N/A
Efficacy: 89.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

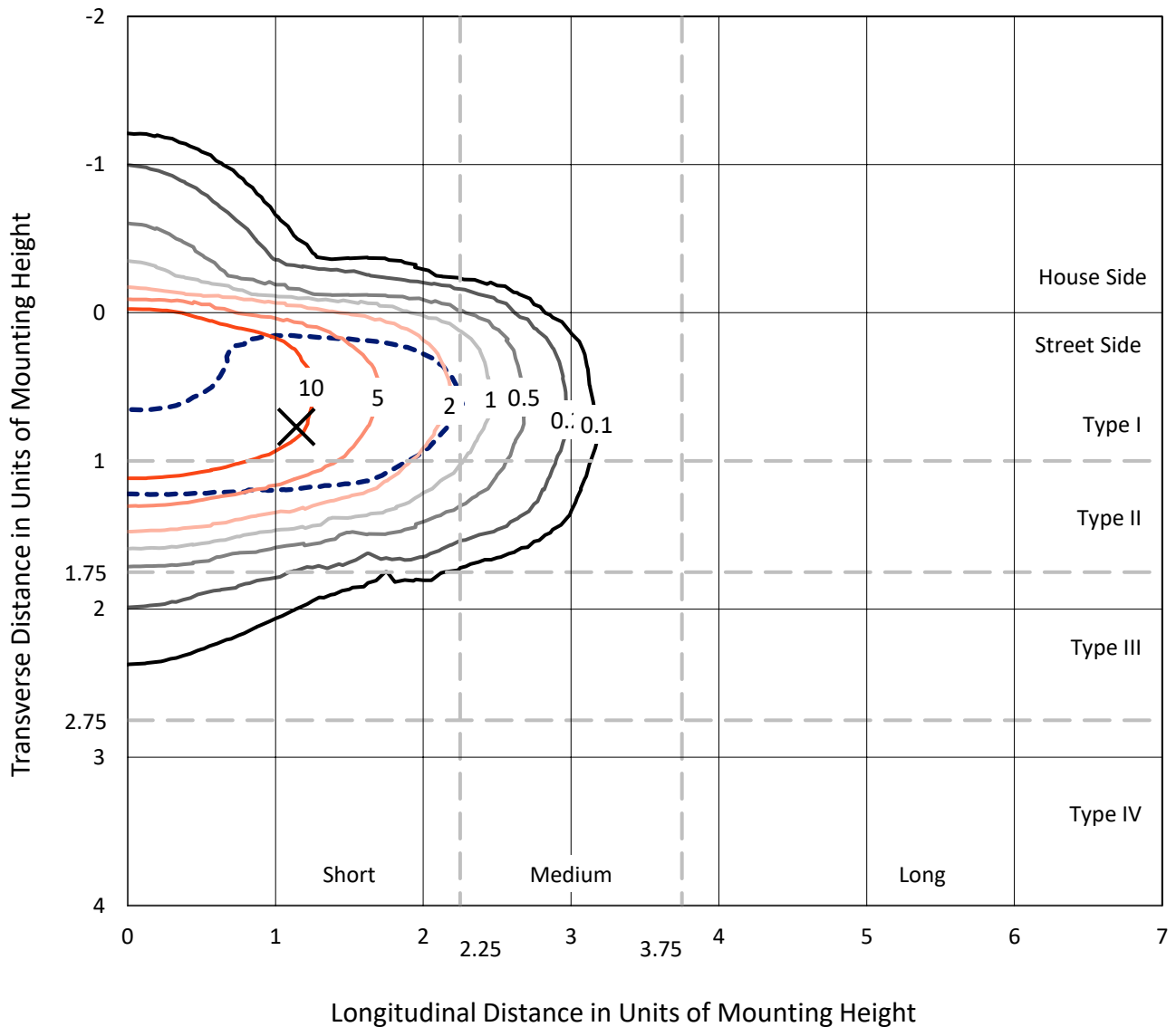
Input Watts (W): 377
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P651004
 CATALOG NUMBER: GALN-SA7C-840-U-AFL-HSS

Iso-Footcandle Lines of Horizontal Illumination

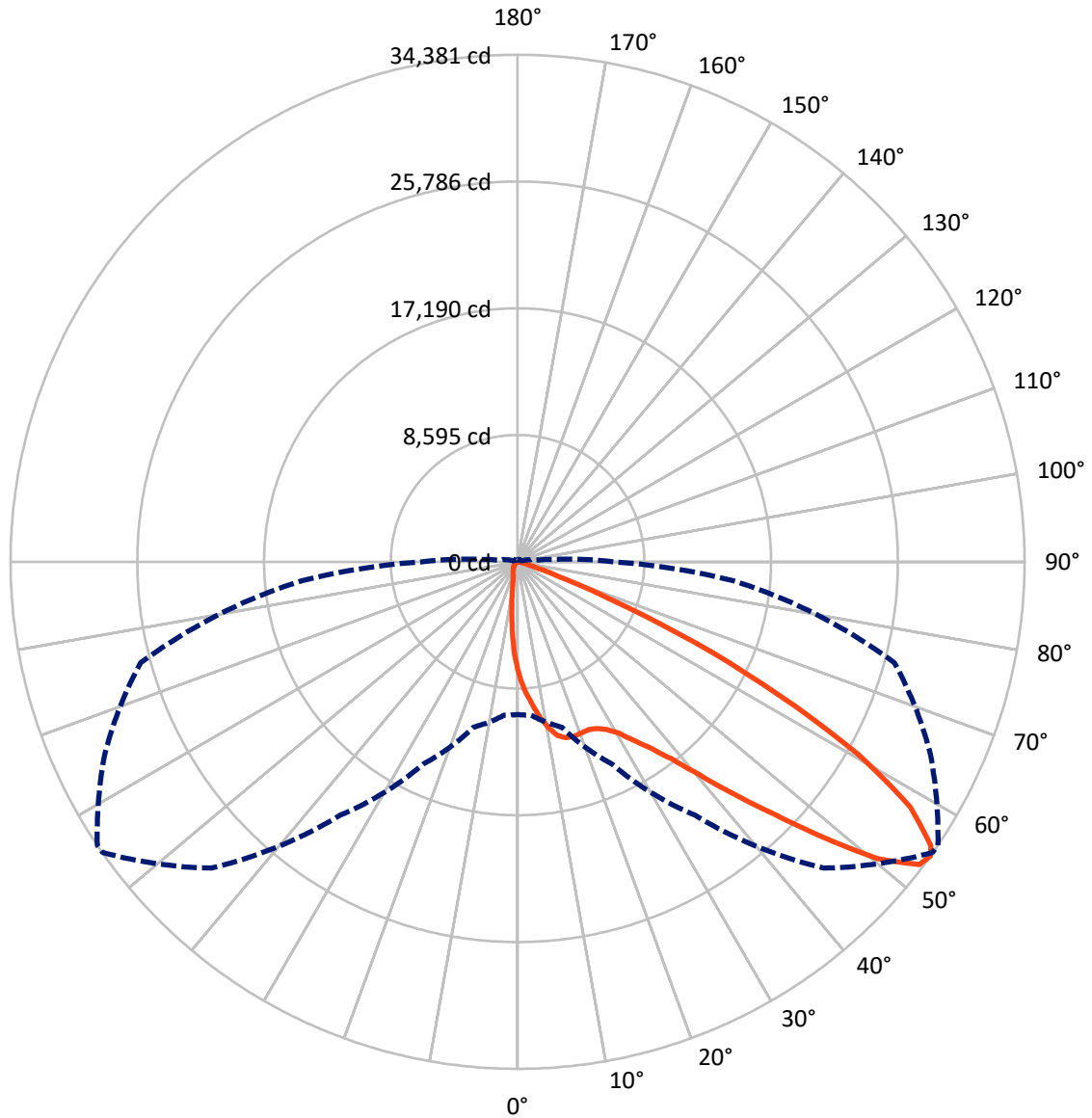
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 fc
 Type II - Short - N/A

REPORT NUMBER: P651004
CATALOG NUMBER: GALN-SA7C-840-U-AFL-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 54-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1595.5	0.0	1595.5
	% Fixture	4.7	0.0	4.7
Street Side	Lumens	32145.4	0.0	32145.4
	% Fixture	95.3	0.0	95.3
Total	Lumens	33740.9	0.0	33740.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	662.4	2.0
10°-20°	1790.7	5.3
20°-30°	3101.4	9.2
30°-40°	5353.5	15.9
40°-50°	9111.8	27.0
50°-60°	9017.3	26.7
60°-70°	4115.7	12.2
70°-80°	528.5	1.6
80°-90°	59.6	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°	33740.9	100.0
0°-180°	33740.9	100.0

Coefficient of Utilization



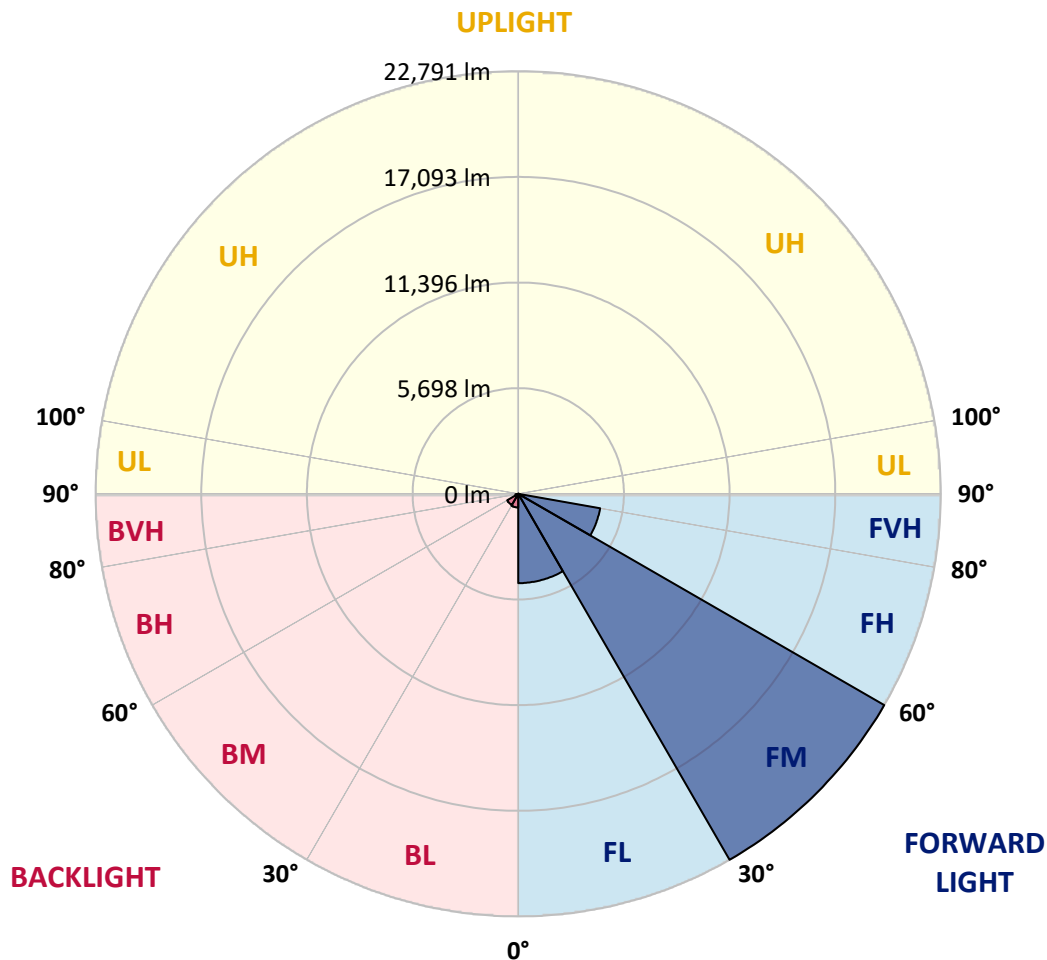
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4816.6	14.3			
FM (30°-60°)	22791.1	67.5			
FH (60°-80°)	4484.5	13.3			G2/5000
FVH (80°-90°)	53.2	0.2			G1/100
BL (0°-30°)	737.9	2.2	B2/1000		
BM (30°-60°)	691.5	2.0	B1/1000		
BH (60°-80°)	159.8	0.5	B1/500		G1/500
BVH (80°-90°)	6.4	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-G2

Type II Short





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CATALOG NUMBER: GALN-SA7C-840-U-AFL-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	7496.3	7496.3	7496.3	7496.3	7496.3	7496.3	7496.3	7496.3	7496.3	7496.3	7496.3
2.5°	9526.8	9460.8	9369.7	9299.2	9133.0	8894.0	8641.3	8641.3	8397.7	8058.5	7712.6
5°	10988.3	10945.0	10856.3	10674.1	10487.5	10152.9	9645.2	9556.5	9121.7	8507.0	7860.5
7.5°	11582.4	11602.9	11607.5	11559.7	11470.9	11140.8	10637.7	10576.2	9881.9	9057.9	8054.0
10°	11013.3	11113.5	11211.4	11409.4	11689.4	11769.1	11484.5	11420.8	10737.9	9615.6	8263.4
12.5°	10166.5	10221.2	10275.8	10587.7	11149.9	11794.2	12092.4	12090.0	11511.9	10171.1	8529.8
15°	9772.7	9820.5	9825.1	9963.9	10451.0	11388.9	12351.9	12386.0	12267.7	10856.3	8816.6
17.5°	9854.7	9893.4	9861.5	9895.6	10150.5	10942.8	12322.2	12436.1	12880.0	11514.1	9076.1
20°	10389.6	10464.7	10341.8	10246.2	10323.6	10824.4	12222.1	12381.5	13312.5	12156.1	9312.8
22.5°	11350.2	11391.3	11236.4	10974.6	10838.1	11072.5	12194.8	12351.9	13681.3	12681.9	9449.4
25°	12417.9	12404.2	12233.5	11939.8	11653.0	11573.3	12374.6	12515.8	13986.3	13155.4	9490.4
27.5°	13485.5	13526.5	13239.7	12875.5	12531.7	12324.5	12777.6	12882.3	14330.1	13694.9	9540.5
30°	14726.2	14660.1	14377.9	13961.3	13567.5	13278.4	13426.3	13455.9	14803.6	14409.8	9672.5
32.5°	16340.2	16158.0	15841.7	15113.2	14830.9	14341.5	14377.9	14414.3	15379.5	15117.7	9831.9
35°	18530.1	18521.0	17901.8	16920.7	16233.2	15625.4	15466.0	15495.6	16251.4	16169.4	10184.7
37.5°	21166.2	21202.6	20496.9	19508.9	18243.2	17278.1	16950.3	16954.8	17576.2	17621.8	10722.0
40°	23312.9	23408.5	22987.3	22320.3	21070.6	19561.3	19010.4	18960.3	19438.4	19381.4	11489.1
42.5°	24237.1	24325.8	24482.9	24715.1	24027.6	22782.4	21482.6	21550.9	21696.6	21298.2	12349.6
45°	23784.1	23925.2	24542.1	25976.3	26622.8	26203.9	24653.7	24414.7	23797.7	23381.1	13214.6
47.5°	21896.9	22240.7	23271.9	25659.8	27922.6	29338.5	28232.2	27915.8	25901.1	24901.8	13765.6
50°	18794.2	18814.6	20251.0	23303.8	27248.8	31316.7	31885.8	31649.1	27861.2	25755.5	14043.3
52.5°	13624.4	14072.9	15388.6	18923.9	24330.4	31016.2	34214.7	34116.8	29882.6	26192.5	14443.9
54°	10357.8	10444.2	11614.3	15122.3	20977.2	29365.9	34358.0	34380.8	30886.5	26456.6	14680.7
55°	8491.1	8283.9	9513.1	12882.3	18689.5	27906.7	33889.1	33998.4	31337.3	26593.2	14855.9
57.5°	4024.7	4027.0	4967.1	6795.1	11705.4	21669.3	31023.1	31410.1	31387.3	26827.6	15395.4
60°	2037.4	2051.0	2258.3	3136.9	5782.1	14405.2	25650.8	26572.7	28972.0	26861.8	15573.0
62.5°	1425.1	1409.1	1375.0	1509.3	2433.5	7321.0	19096.9	19898.2	24615.0	25561.9	15008.5
65°	1220.1	1186.0	1090.4	1069.9	1229.3	2916.1	11894.3	13201.0	18794.2	22133.7	13401.3
67.5°	1042.6	1029.0	942.4	890.1	869.6	1270.2	6137.2	6824.7	12845.9	15910.0	10150.5
70°	885.5	878.7	826.4	760.3	703.4	760.3	2276.4	2820.5	7159.3	8566.2	4789.6
72.5°	719.4	726.2	735.3	651.0	591.9	539.5	972.0	1131.4	2995.8	3061.8	1675.4
75°	630.6	623.8	623.8	566.8	494.0	400.7	535.0	575.9	917.4	851.3	389.3
77.5°	443.9	428.0	500.8	466.7	412.0	284.6	305.0	323.3	380.1	325.6	182.1
80°	307.3	307.3	321.0	418.9	371.0	207.1	186.7	200.3	225.4	193.5	104.7
82.5°	173.0	177.5	209.4	223.1	216.2	138.8	123.0	125.2	150.2	132.0	66.0
85°	20.5	34.1	120.7	118.4	88.8	61.5	68.3	70.6	93.4	81.9	38.7
87.5°	2.3	4.5	25.1	31.9	22.8	25.1	25.1	25.1	31.9	36.4	27.3
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°	7496.3	7496.3	7496.3	7496.3	7496.3	7496.3	7496.3	7496.3	7496.3	7496.3	7496.3
2.5°	7525.9	7352.9	6940.9	6462.7	6157.7	5661.4	5242.6	4939.9	4864.7	4719.0	4762.2
5°	7516.8	7157.1	6317.1	5429.2	4482.3	3776.6	3250.7	2836.4	2654.3	2533.7	2449.4
7.5°	7521.3	6959.0	5611.4	4197.7	3066.4	2374.3	1887.1	1634.5	1466.0	1395.5	1404.6
10°	7534.9	6735.9	4791.8	3109.6	2069.3	1534.3	1236.1	1115.4	1058.6	1049.4	1047.1
12.5°	7566.8	6492.4	4008.8	2308.3	1447.8	1115.4	1001.6	960.7	942.4	942.4	935.6
15°	7601.0	6223.7	3357.7	1716.4	1115.4	958.4	906.0	885.5	874.1	874.1	871.9
17.5°	7601.0	5914.2	2749.9	1331.7	960.7	880.9	840.0	812.7	803.6	803.6	801.3
20°	7553.2	5554.5	2210.4	1072.2	871.9	808.1	767.2	737.6	726.2	721.7	719.4
22.5°	7387.0	5074.2	1759.7	922.0	799.0	744.4	692.1	657.9	648.7	644.2	646.5
25°	7091.1	4532.3	1393.2	810.4	733.0	667.0	621.5	596.4	587.4	587.4	589.6
27.5°	6786.0	3965.6	1104.1	726.2	653.4	594.2	557.8	541.8	539.5	546.3	548.6
30°	6503.7	3396.5	894.7	657.9	582.7	532.7	507.6	503.1	503.1	505.4	507.6
32.5°	6189.6	2897.9	748.9	598.7	525.9	482.6	468.9	468.9	473.5	473.5	478.0
35°	5991.5	2469.9	657.9	541.8	482.6	446.2	437.1	439.3	446.2	455.3	459.9
37.5°	5884.6	2128.5	598.7	496.3	441.6	416.5	407.5	412.0	428.0	443.9	446.2
40°	5893.6	1871.2	550.9	457.6	409.7	382.4	375.6	389.3	405.2	421.2	423.4
42.5°	5993.8	1680.0	505.4	412.0	382.4	343.7	341.4	355.2	362.0	377.9	380.1
45°	6112.2	1541.1	457.6	364.2	332.4	298.2	300.5	311.8	321.0	346.0	350.5
47.5°	6148.6	1445.5	402.9	309.6	273.2	261.8	264.1	270.9	289.1	311.8	314.1
50°	6189.6	1386.3	350.5	261.8	232.2	229.9	232.2	236.7	248.1	257.3	255.0
52.5°	6364.9	1384.0	307.3	227.7	198.1	202.6	204.9	202.6	193.5	179.8	175.3
54°	6528.8	1390.9	286.9	211.7	182.1	189.0	186.7	175.3	152.6	138.8	132.0
55°	6660.8	1397.7	275.4	200.3	173.0	175.3	177.5	154.8	125.2	111.5	107.0
57.5°	6920.3	1381.8	248.1	175.3	152.6	143.4	141.1	102.4	68.3	59.2	54.7
60°	6790.6	1247.5	225.4	150.2	129.8	116.1	95.6	56.9	34.1	25.1	25.1
62.5°	6280.7	1058.6	200.3	123.0	107.0	88.8	50.0	31.9	15.9	9.1	6.8
65°	5618.2	890.1	179.8	97.9	84.3	56.9	27.3	20.5	6.8	0.0	0.0
67.5°	4177.2	660.2	152.6	77.4	63.7	36.4	18.2	11.4	2.3	0.0	0.0
70°	1935.0	402.9	129.8	59.2	45.5	27.3	13.6	6.8	0.0	0.0	0.0
72.5°	555.5	252.7	107.0	43.2	31.9	22.8	11.4	4.5	2.3	0.0	0.0
75°	193.5	202.6	79.6	31.9	25.1	15.9	9.1	4.5	2.3	0.0	0.0
77.5°	116.1	163.9	50.0	27.3	20.5	13.6	9.1	4.5	2.3	2.3	0.0
80°	66.0	109.2	31.9	22.8	18.2	11.4	6.8	4.5	2.3	2.3	0.0
82.5°	36.4	52.4	25.1	20.5	15.9	11.4	6.8	4.5	2.3	2.3	2.3
85°	29.6	27.3	20.5	18.2	13.6	9.1	6.8	2.3	0.0	0.0	0.0
87.5°	22.8	18.2	18.2	18.2	13.6	9.1	6.8	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)