

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: P652604

Luminaire Tested: **GALN-SA9B-840-U-SL2-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P652604  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-840-U-SL2-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 25321.6 lumens  
Efficiency: N/A  
Efficacy: 69.6 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

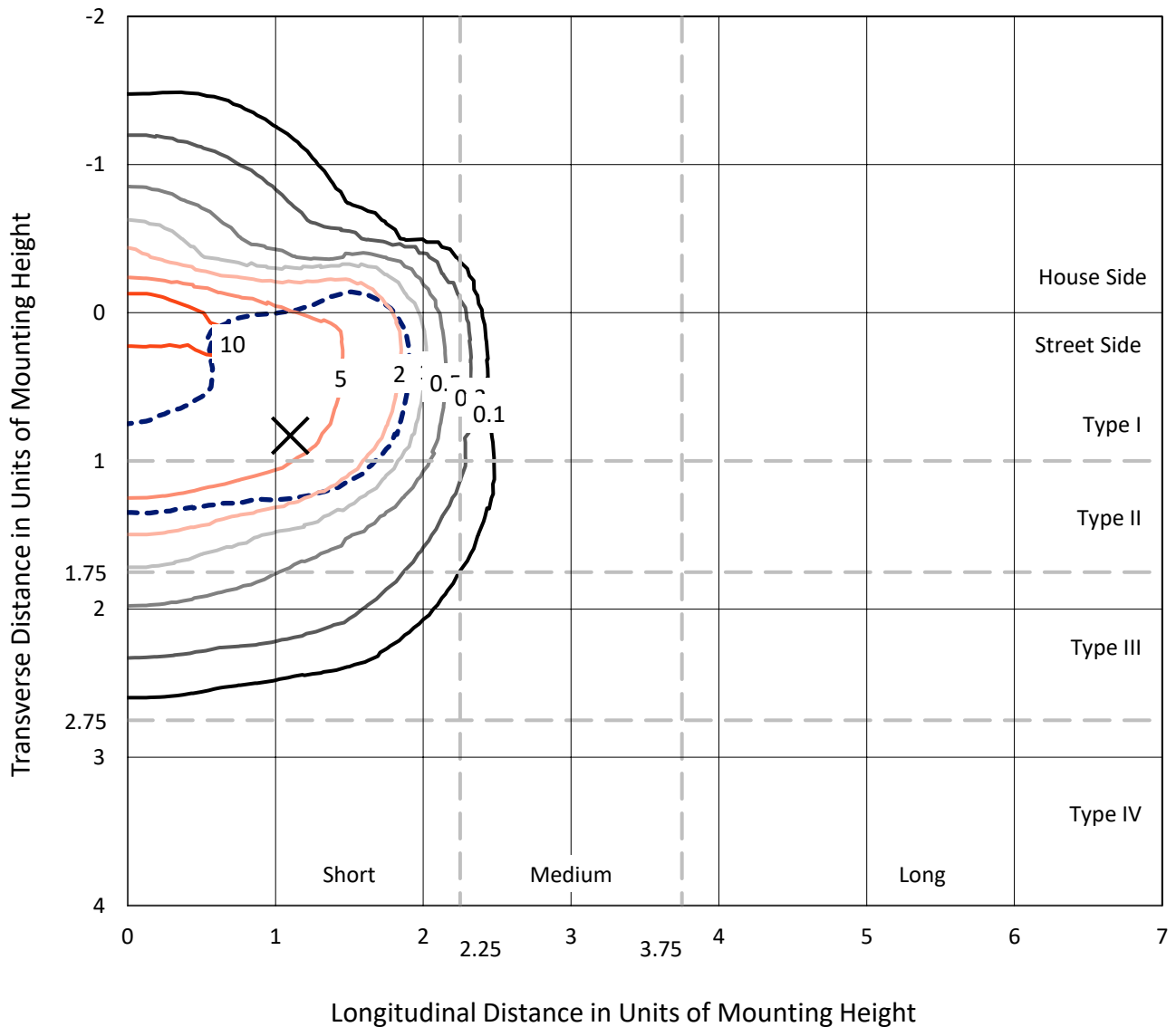
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

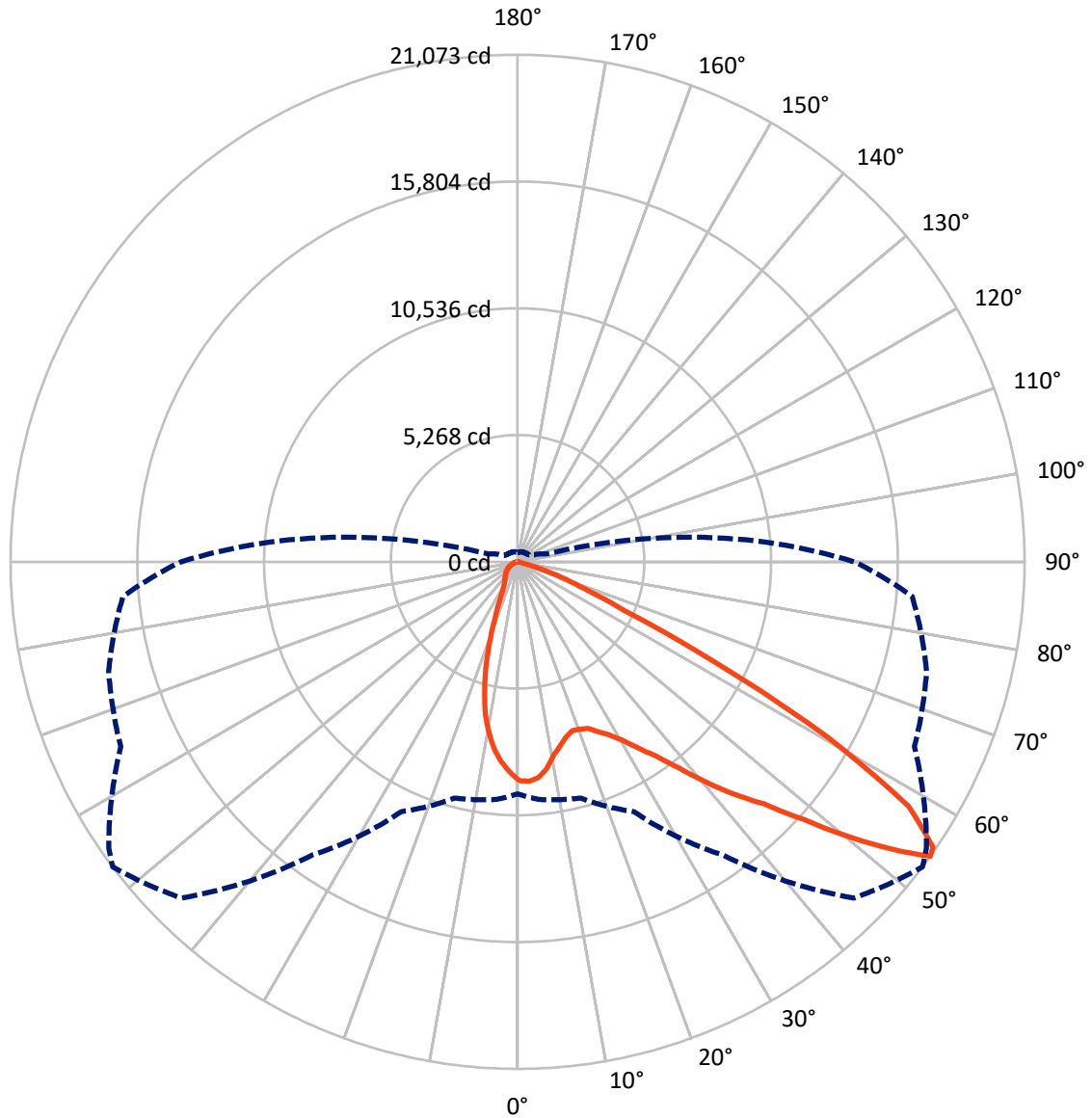
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 14.6 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral      - - - Horizontal Cone Through 54-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4189.5	0.0	4189.5
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	21132.1	0.0	21132.1
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	25321.6	0.0	25321.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	780.3	3.1
10°-20°	1789.1	7.1
20°-30°	2542.7	10.0
30°-40°	3924.0	15.5
40°-50°	6152.4	24.3
50°-60°	7146.9	28.2
60°-70°	2700.5	10.7
70°-80°	256.8	1.0
80°-90°	28.9	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°	25321.6	100.0
0°-180°	25321.6	100.0

**Coefficient of Utilization**



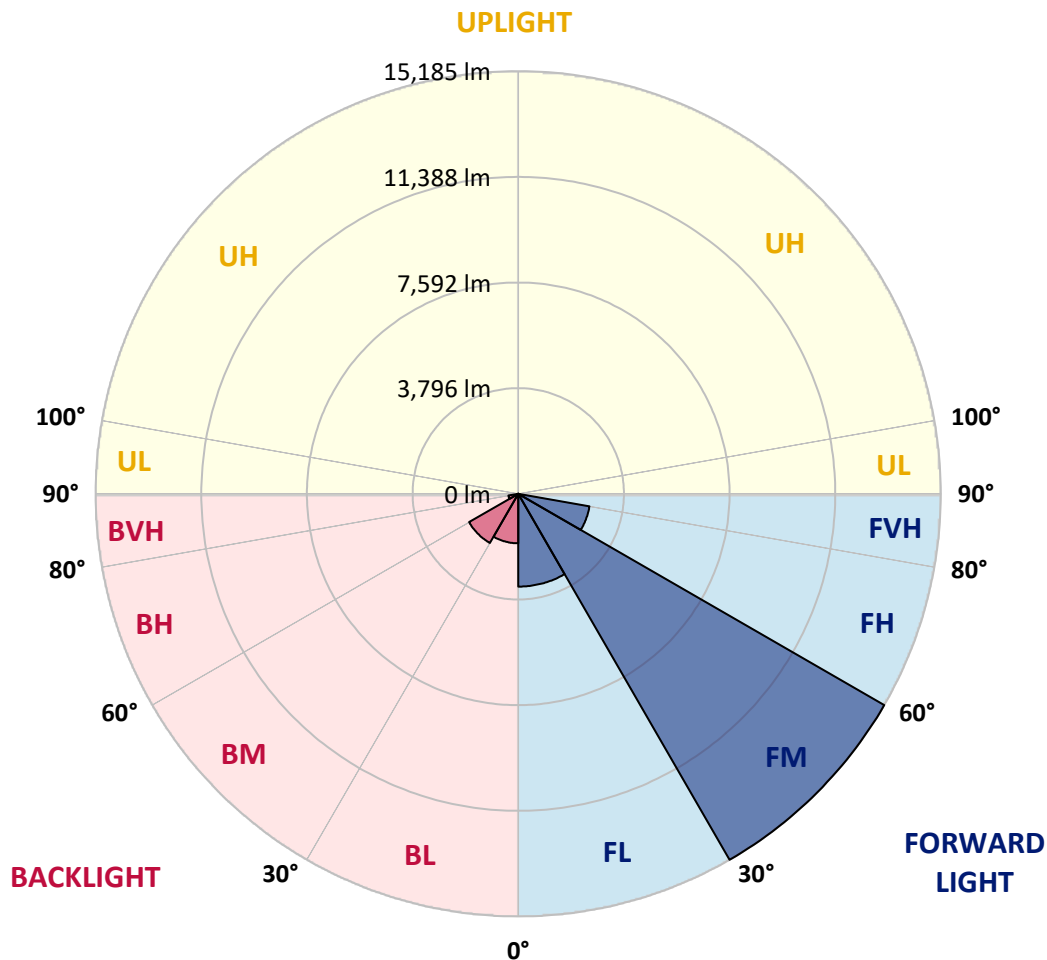
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3334.2	13.2			
FM (30°-60°)	15184.6	60.0			
FH (60°-80°)	2598.4	10.3			G2/5000
FVH (80°-90°)	14.9	0.1			G1/100
BL (0°-30°)	1777.9	7.0	B3/2500		
BM (30°-60°)	2038.7	8.1	B2/2500		
BH (60°-80°)	358.9	1.4	B1/500		G1/500
BVH (80°-90°)	14.0	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°	53°	55°	65°	75°	85°
0°	9095.1	9095.1	9095.1	9095.1	9095.1	9095.1	9095.1	9095.1	9095.1	9095.1	9095.1
2.5°	9048.0	8967.8	9048.0	9057.4	9114.0	9165.9	9132.8	9208.4	9165.9	9118.7	9104.6
5°	8316.7	8425.2	8429.9	8599.8	8562.1	8873.4	9010.2	8972.5	9203.7	9189.4	9156.5
7.5°	7661.0	7618.5	7675.2	7873.3	8123.3	8481.8	8680.0	8675.3	9005.5	9241.3	9217.8
10°	7052.5	7047.7	7165.7	7321.4	7533.7	7911.0	8184.7	8321.4	8835.6	9194.1	9246.0
12.5°	6642.0	6623.2	6750.5	6878.0	7212.9	7505.3	7854.4	7920.5	8510.2	9029.1	9114.0
15°	6373.2	6415.7	6425.1	6670.4	6882.7	7269.5	7543.1	7679.9	8359.2	8897.0	9222.5
17.5°	6326.0	6382.6	6387.3	6590.2	6816.6	7142.1	7382.7	7566.6	8231.9	8963.0	9227.2
20°	6420.4	6387.3	6415.7	6543.0	6764.8	7076.1	7425.2	7486.5	8189.4	8996.1	9279.1
22.5°	6689.2	6679.8	6609.1	6712.9	6868.5	7194.0	7524.3	7618.5	8312.0	9165.9	9321.6
25°	6986.4	7038.3	6972.3	6958.2	7066.7	7387.4	7826.2	7948.8	8722.4	9472.5	9453.6
27.5°	7543.1	7491.2	7491.2	7425.2	7396.8	7552.5	8151.6	8354.5	9180.0	9868.8	9604.6
30°	8076.1	8132.8	8090.3	8113.9	7925.2	7911.0	8613.9	8864.0	9991.4	10472.6	9925.4
32.5°	8920.6	8845.1	8915.9	8854.6	8604.5	8349.8	9241.3	9500.8	10972.6	11166.0	10406.5
35°	9623.5	9590.4	9892.3	9882.9	9477.2	9227.2	9906.5	10293.3	11656.7	11996.3	10972.6
37.5°	10623.5	10562.2	10906.6	11071.7	10708.5	10335.8	10859.4	11307.6	12293.5	12661.4	11552.9
40°	11652.0	11807.6	12269.9	12543.5	12156.7	11661.4	12024.6	12161.4	12718.1	13095.5	11949.1
42.5°	12953.9	13180.4	13652.1	13887.9	13855.0	13317.2	13208.7	13204.0	13024.7	12972.8	12241.6
45°	14204.1	14119.1	14845.6	15359.8	15775.0	15619.2	14350.3	14208.8	13510.6	13156.8	12317.1
47.5°	14751.2	14723.0	15218.3	16133.5	17548.6	17742.1	16010.8	15463.6	14331.4	13930.4	12727.5
50°	14043.7	14189.9	14680.5	15694.7	17864.8	19341.2	18048.7	17312.8	15289.0	14873.9	13699.3
52.5°	11732.1	11831.2	12298.2	13586.1	16789.1	20284.8	20001.7	19577.1	17048.7	16359.9	15392.8
54°	9647.0	9911.2	10165.9	11458.5	14873.9	19761.1	21072.5	20747.0	18195.0	17595.8	16459.0
55°	8401.7	8557.3	8741.4	10029.2	13548.3	18874.2	20949.9	20978.2	18963.9	17982.7	17176.0
57.5°	6137.3	6245.9	6057.1	6627.9	9302.7	15326.8	19162.0	19926.2	20001.7	18562.9	17614.7
60°	4689.1	4736.3	4524.0	4613.6	5783.5	10519.7	14822.0	15741.9	18044.0	16223.1	14921.1
62.5°	3637.1	3646.6	3641.8	3797.5	3986.2	6189.2	9269.7	10085.8	12439.7	11519.8	10133.0
65°	2679.5	2637.0	2712.5	3184.2	3401.3	3891.8	4882.5	5476.8	6760.0	5708.0	4080.5
67.5°	1736.0	1750.1	1825.6	2368.1	2915.3	2986.1	3005.0	2957.8	2962.5	1632.2	1023.7
70°	1042.5	1066.1	1042.5	1339.7	2085.1	2141.7	1957.7	1910.5	1490.7	386.9	382.1
72.5°	618.0	584.9	523.6	575.5	868.0	1037.8	934.0	929.3	584.9	226.4	226.4
75°	259.4	235.9	193.4	174.5	231.2	221.7	221.7	198.1	155.7	151.0	141.5
77.5°	51.9	51.9	37.8	42.5	56.6	66.0	80.2	80.2	94.4	94.4	89.7
80°	0.0	4.7	14.1	28.3	42.5	61.3	70.7	70.7	80.2	80.2	66.0
82.5°	0.0	4.7	14.1	28.3	37.8	56.6	70.7	70.7	80.2	84.9	70.7
85°	0.0	4.7	14.1	23.5	37.8	47.2	47.2	42.5	33.1	28.3	18.8
87.5°	0.0	0.0	4.7	9.4	4.7	9.4	9.4	9.4	9.4	9.4	9.4
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°	9095.1	9095.1	9095.1	9095.1	9095.1	9095.1	9095.1	9095.1	9095.1	9095.1	9095.1
2.5°	9137.5	9132.8	9019.6	8835.6	8793.2	8637.5	8618.7	8524.3	8576.2	8401.7	8382.8
5°	9062.1	9005.5	8868.7	8750.8	8406.4	8161.1	7967.6	7731.8	7595.0	7618.5	7529.0
7.5°	9170.6	9024.4	8783.7	8373.3	7953.5	7524.3	7293.1	6811.9	6637.3	6377.9	6340.1
10°	9057.4	8948.9	8576.2	7896.9	7316.7	6698.6	6156.2	5623.1	5217.4	5042.9	5005.1
12.5°	9048.0	8859.3	8236.6	7481.8	6642.0	5755.2	4967.4	4302.2	3901.3	3674.8	3622.9
15°	8901.7	8675.3	7854.4	6840.2	5679.7	4575.9	3717.3	3075.7	2769.1	2637.0	2674.7
17.5°	8915.9	8576.2	7472.4	6160.9	4731.6	3358.8	2538.0	2207.7	2127.6	2160.5	2160.5
20°	8901.7	8354.5	7010.1	5377.9	3622.9	2330.4	1863.4	1745.4	1797.3	1901.1	1877.5
22.5°	8826.2	8250.7	6585.5	4552.2	2665.3	1726.6	1495.4	1500.1	1580.3	1707.7	1736.0
25°	8882.8	8019.5	6047.7	3717.3	1943.6	1377.5	1297.2	1330.3	1415.2	1509.6	1528.4
27.5°	8840.3	7854.4	5486.3	2887.1	1419.9	1184.0	1179.3	1217.1	1254.9	1325.6	1325.6
30°	8887.5	7703.5	4934.4	2146.4	1169.9	1085.0	1066.1	1094.4	1132.2	1146.3	1141.6
32.5°	9062.1	7590.3	4297.5	1603.9	1033.1	990.6	990.6	990.6	985.9	1004.8	1009.5
35°	9444.2	7609.1	3736.1	1240.6	943.5	910.5	896.3	877.4	868.0	877.4	882.1
37.5°	9859.3	7599.7	3155.9	1056.7	877.4	849.2	816.1	787.8	783.1	792.6	778.3
40°	10043.3	7689.3	2618.1	948.2	816.1	783.1	731.2	707.6	712.3	721.7	712.3
42.5°	10293.3	7717.6	2269.1	863.3	759.5	707.6	674.6	646.3	641.6	655.7	651.0
45°	10288.6	7557.2	1901.1	816.1	707.6	651.0	608.5	584.9	584.9	594.4	599.1
47.5°	10590.5	7533.7	1632.2	773.6	669.9	613.3	561.4	542.5	537.8	537.8	528.3
50°	11293.5	7863.9	1424.7	726.5	622.7	570.8	528.3	504.8	485.9	476.4	471.7
52.5°	12666.2	8892.2	1264.3	669.9	570.8	528.3	490.6	471.7	448.2	424.5	419.8
54°	13996.5	9953.7	1254.9	622.7	528.3	500.1	467.0	457.6	429.2	396.3	386.9
55°	14595.6	10571.6	1287.8	584.9	500.1	481.1	452.9	443.5	415.1	377.4	372.6
57.5°	15090.9	10812.2	1269.0	485.9	452.9	448.2	424.5	410.4	377.4	325.5	316.0
60°	12147.2	8175.2	910.5	429.2	415.1	405.7	386.9	377.4	335.0	278.3	273.6
62.5°	7675.2	4703.2	580.2	377.4	363.2	349.1	325.5	316.0	278.3	221.7	207.6
65°	3269.1	1948.3	391.6	335.0	311.3	287.8	268.9	254.7	221.7	165.1	160.4
67.5°	849.2	693.5	325.5	292.5	259.4	226.4	212.3	188.7	151.0	113.2	108.5
70°	382.1	349.1	273.6	245.3	207.6	174.5	155.7	132.1	99.1	75.4	70.7
72.5°	226.4	221.7	207.6	184.0	155.7	132.1	113.2	89.7	66.0	42.5	42.5
75°	141.5	136.8	141.5	127.3	108.5	99.1	84.9	61.3	37.8	18.8	18.8
77.5°	84.9	84.9	84.9	80.2	75.4	75.4	61.3	37.8	18.8	4.7	4.7
80°	66.0	66.0	70.7	66.0	66.0	66.0	51.9	28.3	9.4	0.0	0.0
82.5°	66.0	70.7	80.2	75.4	66.0	56.6	47.2	28.3	9.4	0.0	0.0
85°	18.8	14.1	23.5	33.1	47.2	42.5	33.1	23.5	9.4	0.0	0.0
87.5°	9.4	9.4	9.4	9.4	4.7	4.7	4.7	4.7	4.7	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)