

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: P457421

Luminaire Tested: **GALN-SA8D-730-U-SL4-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457421  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8D-730-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 46796 lumens  
Efficiency: N/A  
Efficacy: 94.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

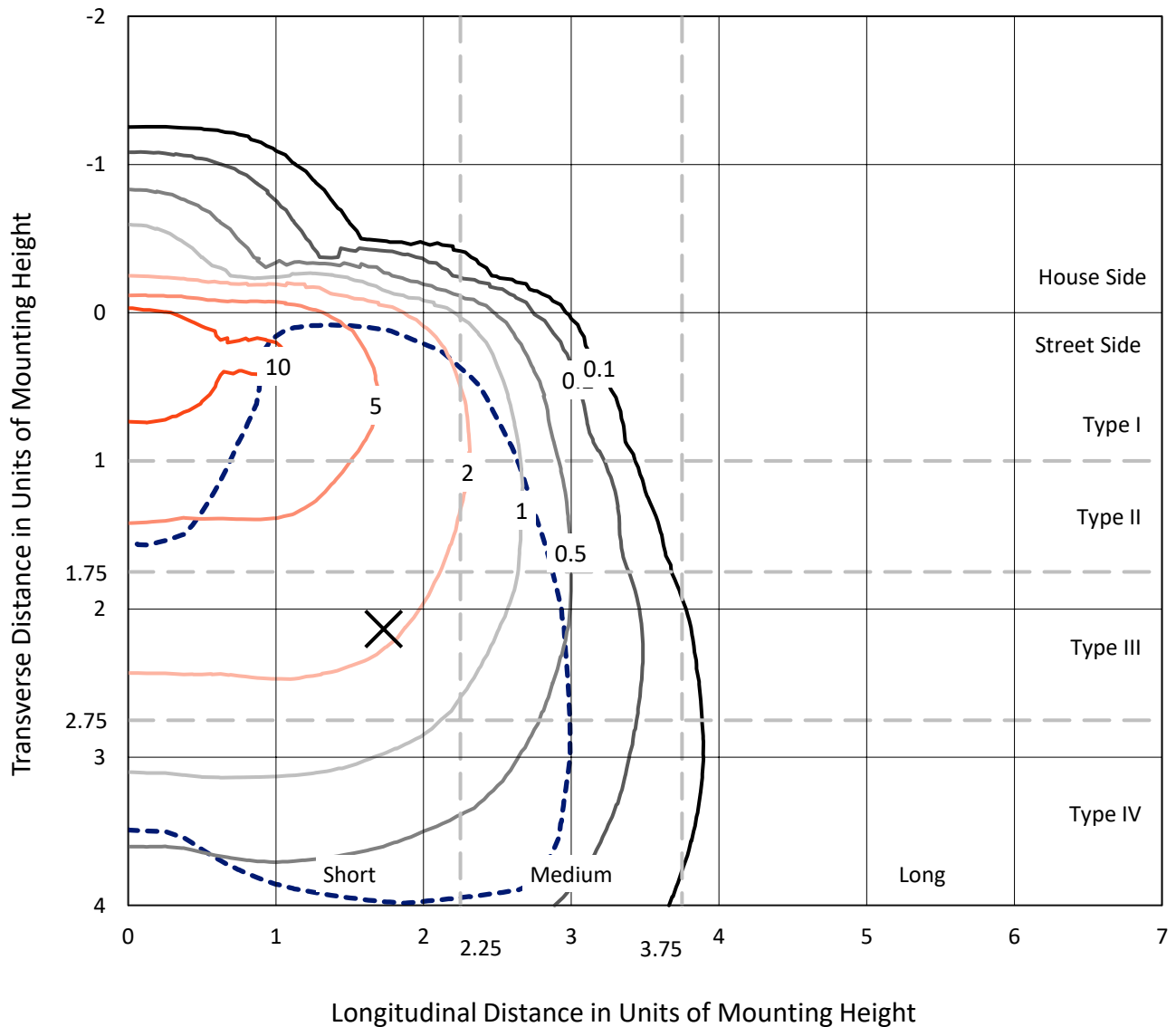
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

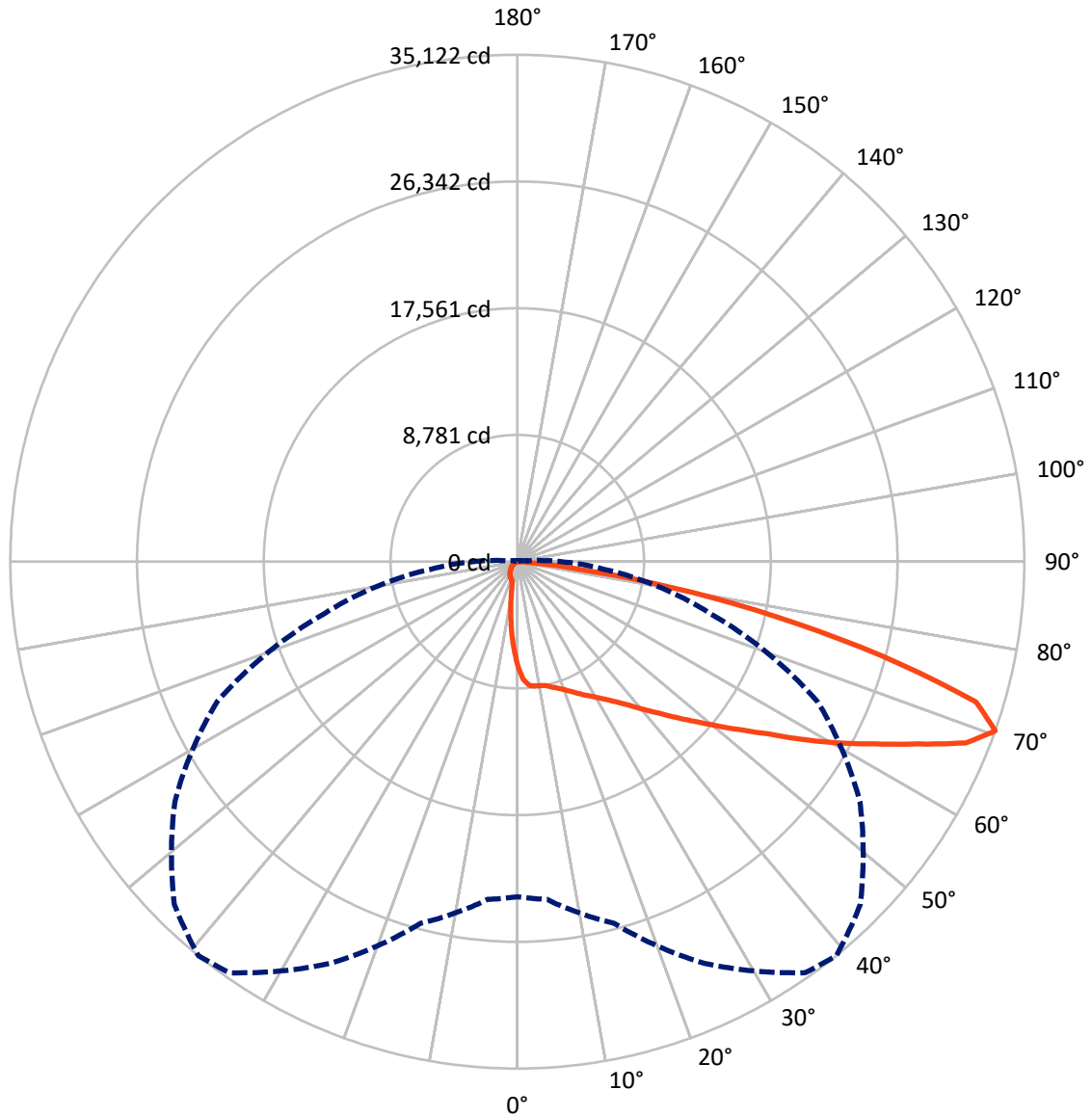
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.9 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral    - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3051.3	0.0	3051.3
	% Fixture	6.5	0.0	6.5
<b>Street Side</b>	Lumens	43744.7	0.0	43744.7
	% Fixture	93.5	0.0	93.5
<b>Total</b>	Lumens	46796.0	0.0	46796.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	622.8	1.3
10°-20°	1618.4	3.5
20°-30°	2711.3	5.8
30°-40°	4205.0	9.0
40°-50°	6663.6	14.2
50°-60°	9767.9	20.9
60°-70°	12520.1	26.8
70°-80°	7867.2	16.8
80°-90°	819.6	1.8
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°	46796.0	100.0
0°-180°	46796.0	100.0

**Coefficient of Utilization**



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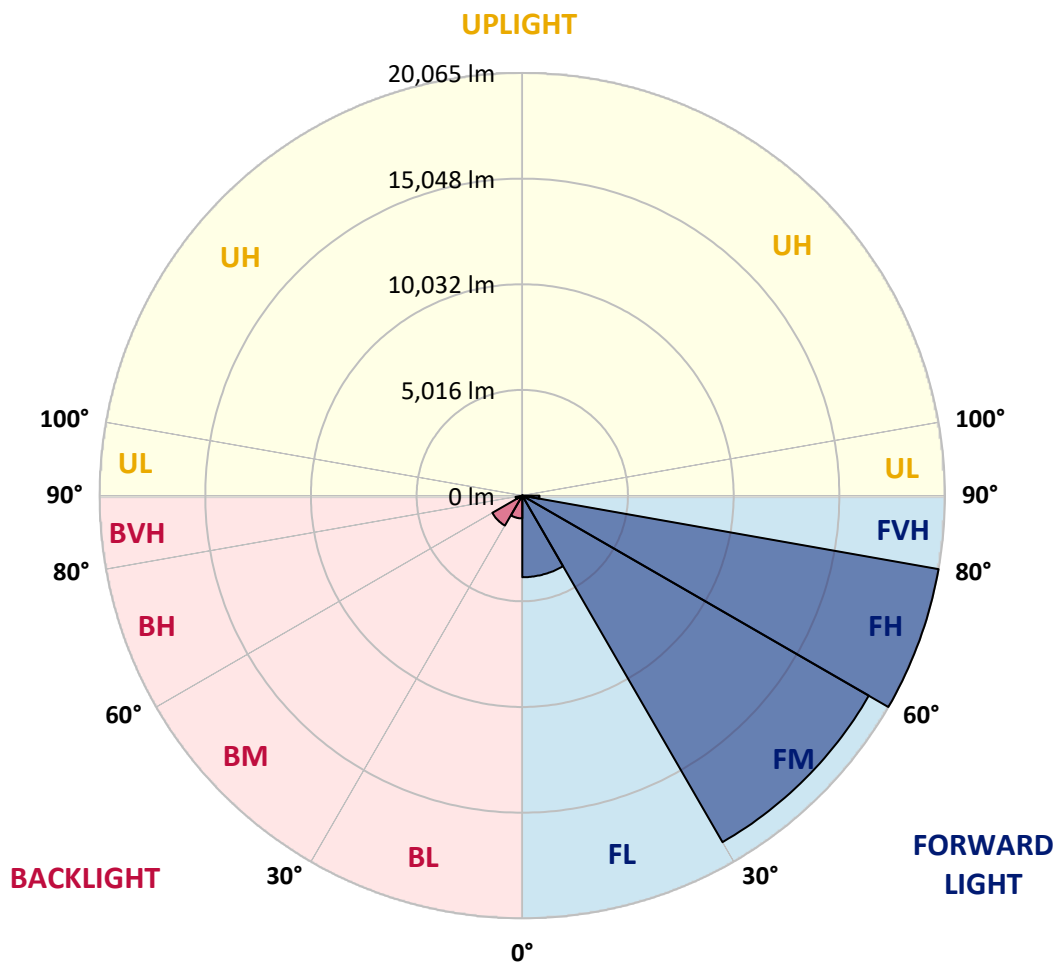
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3872.1	8.3			
FM	(30°-60°)	18994.4	40.6			
FH	(60°-80°)	20064.6	42.9			G5
FVH	(80°-90°)	813.6	1.7			G5
BL	(0°-30°)	1080.5	2.3	B3/2500		
BM	(30°-60°)	1642.1	3.5	B2/2500		
BH	(60°-80°)	322.7	0.7	B1/500		G1/500
BVH	(80°-90°)	6.0	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G5**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	7301.8	7301.8	7301.8	7301.8	7301.8	7301.8	7301.8	7301.8	7301.8	7301.8	7301.8
2.5°	8437.0	8408.7	8370.9	8326.9	8201.1	8179.1	8103.7	7943.3	7751.5	7594.2	7377.3
5°	8836.4	8852.1	8823.8	8745.2	8654.0	8600.5	8506.2	8257.7	8009.3	7691.7	7336.4
7.5°	8927.5	8959.0	8924.4	8848.9	8760.9	8704.3	8628.8	8415.0	8125.7	7764.0	7276.6
10°	8918.1	8955.8	8933.8	8864.7	8792.3	8738.9	8657.1	8487.3	8254.6	7874.1	7295.5
12.5°	8902.4	8952.7	8949.6	8915.0	8855.2	8814.3	8764.0	8613.1	8396.1	8034.5	7399.3
15°	8858.4	8921.3	8977.9	9006.2	9009.3	9009.3	8946.4	8786.0	8578.5	8245.2	7534.5
17.5°	8877.2	8949.6	9091.1	9172.8	9229.4	9223.1	9157.1	8984.1	8754.6	8462.1	7676.0
20°	8993.6	9091.1	9289.2	9452.7	9509.3	9490.4	9402.4	9201.1	8940.1	8647.7	7814.4
22.5°	9279.7	9367.8	9616.2	9808.0	9848.9	9798.6	9672.8	9399.2	9163.4	8848.9	7981.0
25°	9707.4	9811.2	10040.7	10185.4	10185.4	10157.1	9981.0	9660.2	9415.0	9128.8	8198.0
27.5°	10226.3	10314.3	10540.7	10669.7	10594.2	10512.4	10336.3	9949.5	9713.7	9481.0	8459.0
30°	10751.4	10808.0	11047.0	11103.6	11025.0	10921.2	10732.5	10345.8	10138.2	9959.0	8836.4
32.5°	11248.3	11370.9	11569.0	11556.4	11449.5	11399.2	11226.3	10814.3	10698.0	10679.1	9364.6
35°	11745.1	11839.5	12015.5	12059.6	11965.2	11955.8	11830.0	11525.0	11528.1	11650.8	10188.5
37.5°	12172.8	12257.7	12465.2	12562.7	12581.6	12628.7	12578.4	12377.2	12663.3	12999.8	11279.7
40°	12531.3	12650.8	12914.9	13084.7	13279.7	13452.6	13462.1	13506.1	14081.6	14660.2	12704.2
42.5°	12811.1	12977.8	13361.4	13675.9	14122.4	14342.6	14518.7	14760.8	15729.3	16594.1	14383.4
45°	13175.9	13367.7	13845.7	14339.4	15037.5	15399.1	15644.4	16292.2	17666.4	18845.6	16106.7
47.5°	13779.7	13880.3	14367.7	15087.8	16006.1	16521.8	16999.8	17980.9	19745.0	20801.6	17540.6
50°	14556.4	14622.4	14990.3	15990.3	17179.0	17858.2	18729.3	19883.4	21902.2	22424.2	18351.9
52.5°	15414.9	15436.9	15713.6	16984.0	18493.4	19348.8	20323.6	21748.1	23660.0	23581.4	18889.7
55°	16411.7	16380.3	16616.1	18062.6	20050.0	21028.0	22163.2	23656.9	25185.2	24402.2	19197.8
57.5°	17553.2	17468.3	17697.9	19493.4	22043.7	23213.5	24367.6	25304.7	26367.5	25090.8	19345.6
60°	18748.2	18578.3	18851.9	21100.3	24392.7	25502.8	26461.9	26713.4	27612.8	25638.0	19090.9
62.5°	19701.0	19704.1	20213.5	22811.0	26807.8	27779.5	28288.9	28515.3	28685.1	25518.5	17751.3
65°	21188.4	21238.7	22053.1	25185.2	29603.3	30446.1	30795.2	30059.3	28732.3	24034.2	15738.8
67.5°	22722.9	22883.3	24373.9	28455.6	32832.9	33512.1	33062.4	30358.1	27449.3	20647.5	11933.8
70°	23222.9	23487.1	25943.0	30707.1	34769.9	35122.1	33600.1	28965.0	22946.2	13804.8	6006.2
72.5°	21279.6	21707.2	25040.5	29886.4	33534.1	33229.1	30062.5	24292.1	14587.8	5242.1	1833.3
75°	15006.1	15194.7	20811.0	24792.1	26971.3	26106.5	22867.6	15660.2	5999.9	1471.7	628.9
77.5°	7748.3	7657.1	12377.2	16449.4	19235.6	18339.4	14974.6	8106.8	2273.6	613.2	389.9
80°	4006.2	4072.3	5355.3	8619.4	11742.0	10804.9	7984.2	3757.8	1210.7	339.6	298.7
82.5°	2245.3	2106.9	3078.6	3764.1	5490.5	4305.0	3062.8	2660.3	528.3	204.4	283.0
85°	408.8	427.7	1688.7	2034.6	1905.6	1210.7	987.4	1776.7	154.1	113.2	198.1
87.5°	6.3	6.3	327.0	584.9	371.1	169.8	311.3	254.7	31.4	44.0	34.6
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°	7301.8	7301.8	7301.8	7301.8	7301.8	7301.8	7301.8	7301.8	7301.8	7301.8	7301.8
2.5°	7267.2	7147.7	6924.4	6704.3	6424.4	6194.9	6040.8	5880.4	5716.9	5729.5	5767.2
5°	7141.4	6933.9	6493.6	6028.2	5581.7	5179.2	4782.9	4427.6	4283.0	4150.9	4157.2
7.5°	7015.6	6723.2	6078.5	5349.0	4672.9	3987.4	3490.5	3081.7	2864.7	2701.2	2654.0
10°	6959.0	6572.2	5698.0	4694.9	3735.8	2987.4	2349.0	2015.7	1757.8	1676.1	1698.1
12.5°	6984.2	6496.8	5355.3	4103.7	2962.2	2081.7	1635.2	1465.4	1408.8	1399.4	1393.1
15°	7031.3	6443.3	5018.8	3449.6	2176.1	1547.1	1374.2	1342.7	1336.5	1330.2	1333.3
17.5°	7094.2	6396.1	4660.3	2836.4	1669.8	1352.2	1301.9	1286.1	1283.0	1283.0	1283.0
20°	7157.1	6342.7	4260.9	2289.3	1393.1	1276.7	1245.3	1235.8	1232.7	1232.7	1229.5
22.5°	7229.5	6295.5	3855.3	1798.7	1283.0	1223.3	1195.0	1188.7	1185.5	1182.4	1182.4
25°	7333.2	6235.8	3424.5	1471.7	1213.8	1172.9	1144.6	1138.3	1135.2	1122.6	1125.8
27.5°	7471.6	6191.7	2981.1	1270.4	1150.9	1110.0	1091.2	1081.7	1075.5	1066.0	1069.2
30°	7660.3	6154.0	2509.4	1160.4	1078.6	1044.0	1025.1	1018.9	1012.6	1003.1	1003.1
32.5°	7987.3	6169.7	2012.5	1072.3	1012.6	971.7	952.8	946.5	940.2	930.8	930.8
35°	8477.9	6260.9	1610.0	996.8	933.9	893.1	874.2	874.2	864.8	852.2	849.0
37.5°	9279.7	6493.6	1292.4	924.5	858.5	820.7	798.7	792.4	783.0	764.1	761.0
40°	10226.3	6855.2	1088.0	852.2	789.3	751.6	732.7	713.8	688.7	669.8	666.7
42.5°	11414.9	7226.3	943.4	779.9	723.3	688.7	666.7	635.2	597.5	572.3	569.2
45°	12653.9	7565.9	845.9	713.8	660.4	632.1	606.9	556.6	509.4	478.0	474.8
47.5°	13578.4	7628.8	767.3	650.9	606.9	578.6	544.0	481.1	418.2	389.9	380.5
50°	14015.5	7323.8	685.5	588.0	553.5	522.0	478.0	405.7	336.5	301.9	295.6
52.5°	14169.6	6795.5	619.5	531.4	500.0	462.3	408.8	327.0	264.1	229.6	226.4
55°	14106.7	6128.8	559.7	478.0	437.1	393.1	339.6	261.0	195.0	166.7	160.4
57.5°	13776.5	5279.8	500.0	424.5	374.2	330.2	270.4	195.0	132.1	106.9	103.8
60°	12886.6	4122.6	440.2	364.8	317.6	270.4	213.8	138.4	81.8	59.7	59.7
62.5°	11383.5	3059.7	383.6	305.0	267.3	217.0	150.9	88.0	44.0	31.4	28.3
65°	9512.4	2257.8	320.8	257.9	223.3	169.8	106.9	53.5	22.0	9.4	6.3
67.5°	6638.3	1393.1	267.3	210.7	182.4	122.6	66.0	22.0	9.4	0.0	0.0
70°	3015.7	663.5	204.4	160.4	138.4	88.0	34.6	12.6	6.3	0.0	0.0
72.5°	937.1	349.1	144.7	116.4	94.3	56.6	18.9	9.4	6.3	0.0	0.0
75°	434.0	223.3	91.2	62.9	53.5	28.3	12.6	6.3	3.1	0.0	0.0
77.5°	323.9	173.0	53.5	34.6	28.3	18.9	9.4	6.3	3.1	0.0	0.0
80°	283.0	88.0	31.4	22.0	15.7	12.6	6.3	3.1	0.0	0.0	0.0
82.5°	254.7	44.0	18.9	12.6	9.4	6.3	3.1	3.1	0.0	0.0	0.0
85°	138.4	25.2	12.6	9.4	6.3	3.1	3.1	0.0	0.0	0.0	0.0
87.5°	25.2	12.6	9.4	6.3	6.3	3.1	3.1	3.1	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)