

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: P458161

Luminaire Tested: **GALN-SA9C-740-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P458161  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9C-740-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 45895 lumens  
Efficiency: N/A  
Efficacy: 95.4 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

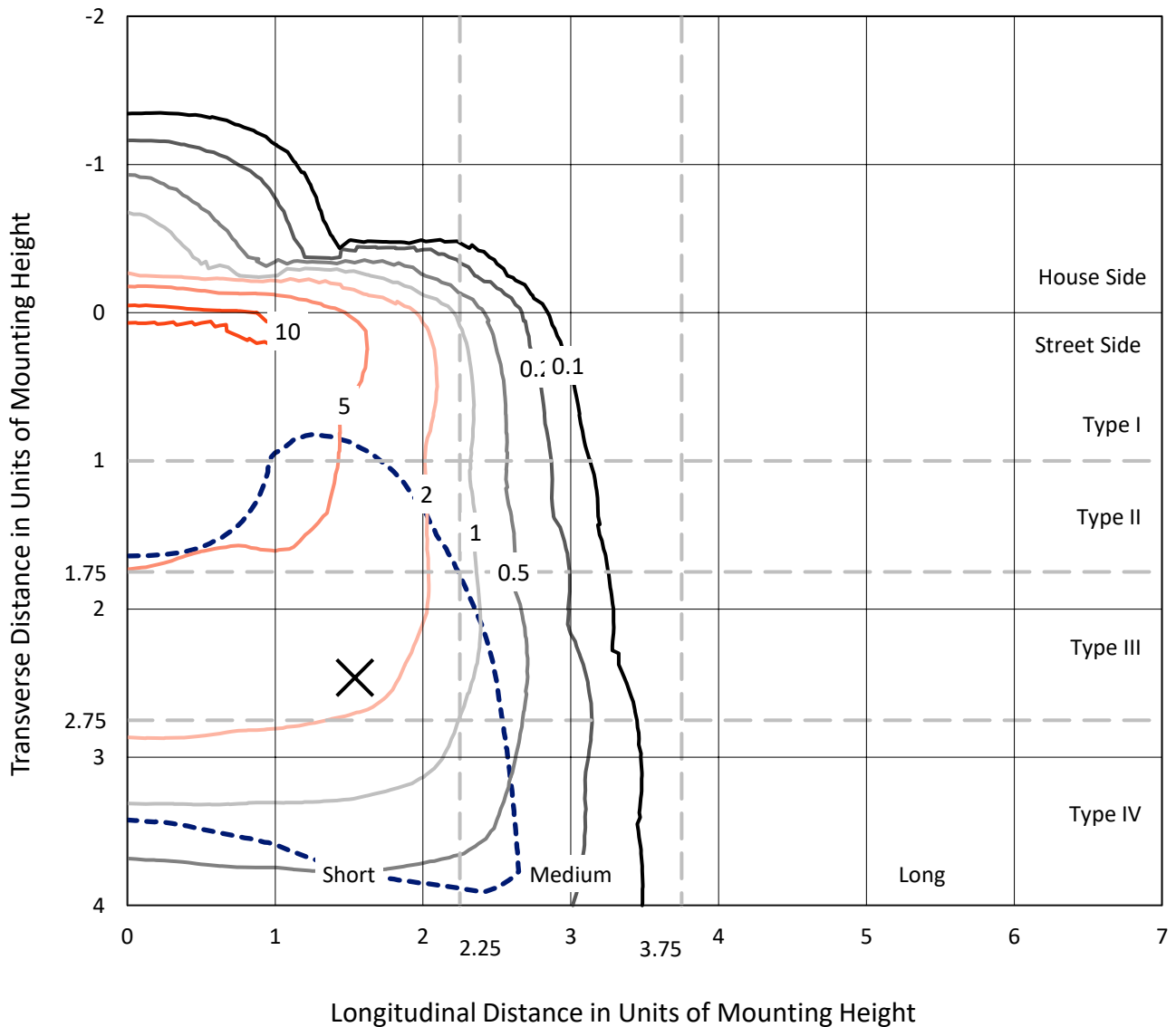
Input Watts (W): 481  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

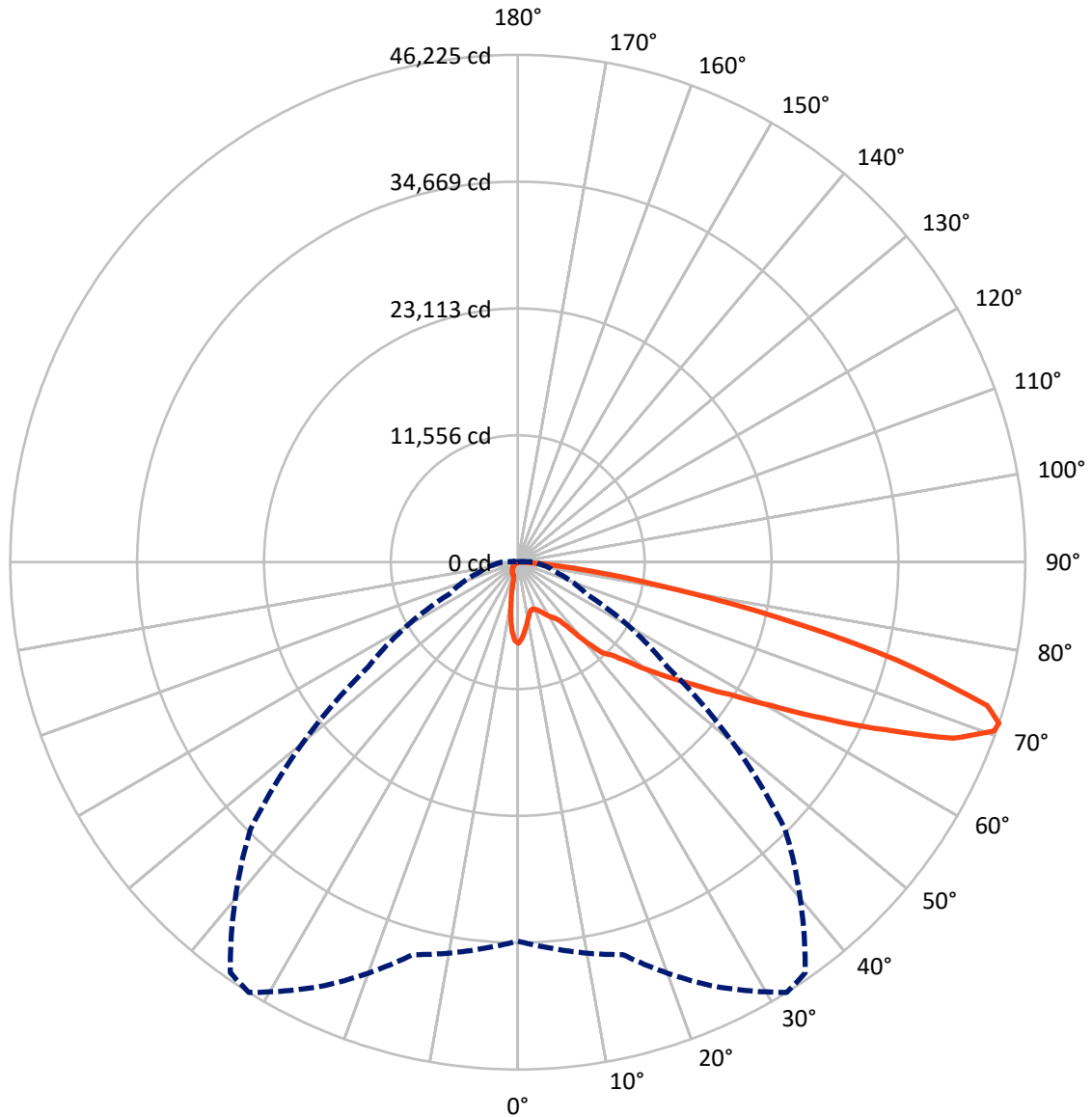
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.8 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral      - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3844.2	0.0	3844.2
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	42050.8	0.0	42050.8
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	45895.0	0.0	45895.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	600.1	1.3
10°-20°	1302.5	2.8
20°-30°	2026.3	4.4
30°-40°	3375.8	7.4
40°-50°	6279.6	13.7
50°-60°	10082.1	22.0
60°-70°	13560.9	29.5
70°-80°	8045.8	17.5
80°-90°	621.9	1.4
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°	45895.0	100.0
0°-180°	45895.0	100.0



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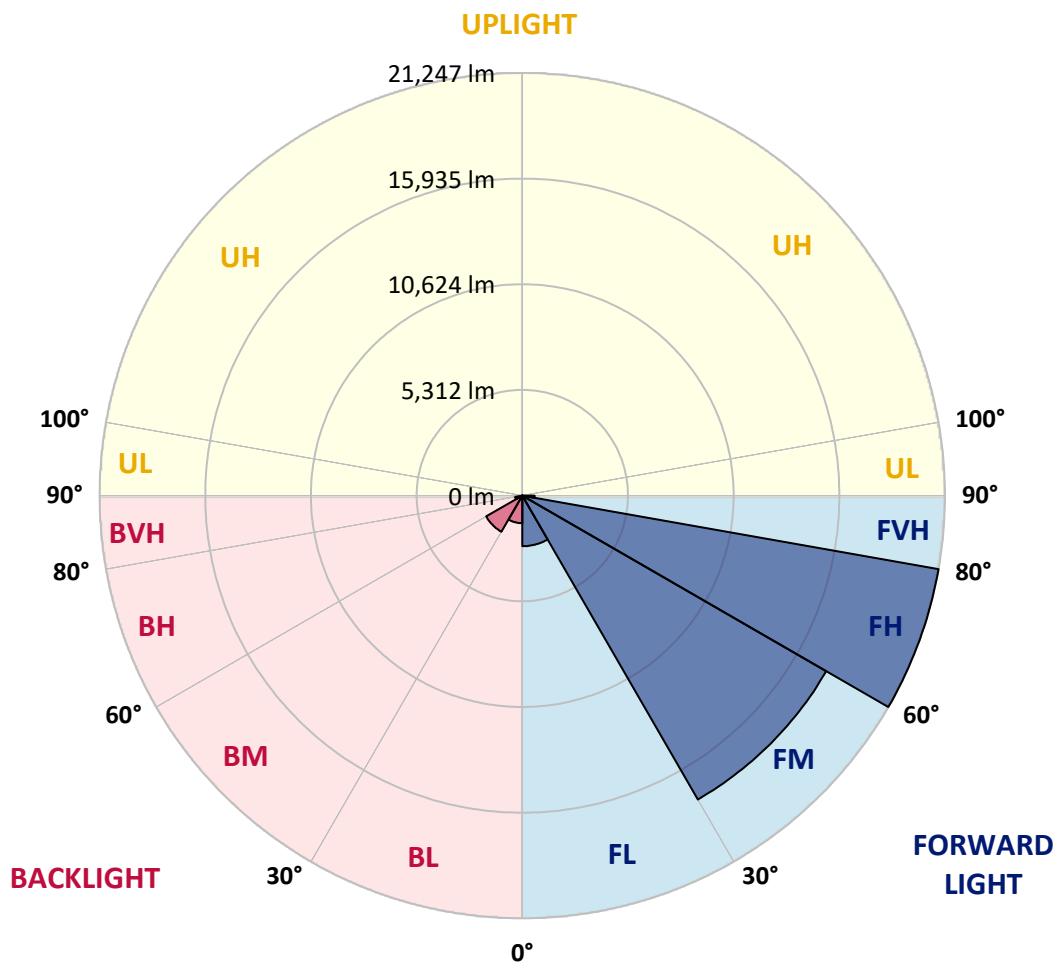
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2543.8	5.5			
FM	(30°-60°)	17640.3	38.4			
FH	(60°-80°)	21247.2	46.3			G5
FVH	(80°-90°)	619.5	1.3			G4/750
BL	(0°-30°)	1385.1	3.0	B3/2500		
BM	(30°-60°)	2097.1	4.6	B2/2500		
BH	(60°-80°)	359.5	0.8	B1/500		G1/500
BVH	(80°-90°)	2.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

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

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	7380.6	7380.6	7380.6	7380.6	7380.6	7380.6	7380.6	7380.6	7380.6	7380.6	7380.6
2.5°	6845.1	6915.6	6905.0	6929.7	6989.6	7014.2	7081.2	7155.2	7257.3	7327.8	7373.6
5°	6130.0	6182.8	6189.9	6313.2	6373.1	6440.0	6637.3	6852.2	7091.7	7282.0	7408.8
7.5°	5365.5	5393.7	5450.0	5612.1	5763.6	5830.5	6130.0	6503.4	6880.4	7236.2	7465.2
10°	4734.9	4766.6	4868.8	5041.4	5182.3	5270.4	5686.1	6154.6	6683.1	7211.5	7546.2
12.5°	4375.5	4393.1	4431.9	4586.9	4766.6	4861.7	5309.1	5844.6	6524.5	7222.1	7683.6
15°	4350.9	4343.8	4298.0	4361.4	4523.5	4622.1	5059.0	5633.2	6383.6	7257.3	7845.7
17.5°	4481.2	4463.6	4354.4	4354.4	4488.3	4569.3	4953.3	5520.5	6313.2	7338.4	8074.7
20°	4682.0	4653.9	4474.2	4460.1	4590.4	4675.0	5016.7	5527.5	6327.3	7489.8	8381.2
22.5°	4935.7	4904.0	4632.7	4639.8	4780.7	4865.2	5199.9	5654.4	6415.3	7676.6	8708.8
25°	5266.8	5231.6	4911.0	4896.9	5044.9	5118.9	5471.2	5879.8	6538.6	7909.1	9138.6
27.5°	5707.2	5633.2	5249.2	5228.1	5386.6	5481.7	5798.8	6182.8	6757.1	8229.7	9716.4
30°	6070.1	5989.1	5622.7	5566.3	5735.4	5809.4	6137.0	6591.5	7186.9	8789.8	10516.1
32.5°	6545.7	6425.9	5996.1	5848.1	6027.8	6122.9	6626.7	7352.4	7824.5	9381.7	11467.3
35°	7616.7	7542.7	7017.8	6499.9	6489.3	6609.1	7348.9	8120.5	8479.8	10304.7	12763.7
37.5°	9149.2	9096.3	8539.7	7845.7	7644.9	7588.5	8226.1	8966.0	9526.1	11573.0	14271.6
40°	10928.3	10805.0	10294.1	9705.8	9445.1	9279.5	9261.9	10223.7	10893.0	13295.7	15842.8
42.5°	12203.6	11978.1	11358.1	11315.8	11259.4	11086.8	10586.5	12062.7	12658.0	15148.8	17523.3
45°	13542.3	13200.6	12277.6	12119.0	12097.9	12087.3	12587.6	14239.9	14581.6	17156.9	19249.5
47.5°	14581.6	14310.3	13552.9	13482.4	13570.5	13810.1	15233.3	16550.9	16480.5	18946.6	20697.5
50°	15966.1	15761.8	14919.8	15053.7	15508.1	15899.2	18217.3	19069.9	18041.2	20355.8	21750.8
52.5°	17600.8	17223.8	16441.7	16804.6	17502.1	18153.9	21384.5	21275.2	19136.8	21416.2	22536.5
55°	19017.0	18749.3	18481.5	18858.5	19901.3	20715.1	24245.1	22927.5	19933.0	22268.7	22881.7
57.5°	21412.6	21349.2	21074.4	21458.4	22723.2	23568.7	26806.3	24209.9	20443.8	22712.6	22476.6
60°	24956.8	24854.6	24343.8	24833.5	26482.2	27810.4	29166.7	25361.9	20560.1	22540.0	21310.5
62.5°	29219.6	28870.8	28433.9	29156.1	31417.9	32002.7	31389.7	26045.4	20126.8	21166.0	18499.1
65°	33200.5	32841.2	32851.7	34373.7	36836.2	37234.3	33982.6	25943.2	18858.5	17724.1	13644.5
67.5°	36247.9	36188.0	36617.8	39587.7	42807.7	42532.9	36300.7	24414.2	15099.5	11488.4	7250.3
70°	36402.9	36519.2	37752.2	42765.4	46034.7	45597.9	36103.4	19844.9	9413.4	5284.5	2857.1
71°	34528.7	35310.8	37015.9	42666.8	46225.0	45657.8	34440.6	16621.4	6905.0	3685.0	2060.9
72.5°	29423.9	29836.1	33521.1	40154.9	44720.6	43508.7	30223.6	11650.5	4421.3	2254.7	1183.7
75°	16205.7	17220.3	22448.4	31502.4	35768.8	34704.8	19697.0	5534.6	2205.4	1233.0	489.7
77.5°	7715.3	7518.0	10952.9	18735.2	24252.2	24195.8	9924.2	2459.0	1285.9	834.9	246.6
80°	2205.4	2480.2	4192.3	8906.1	13464.8	13612.8	3811.9	1187.2	891.3	651.8	126.8
82.5°	665.8	679.9	1539.5	3938.7	6697.2	6313.2	1430.3	606.0	641.2	517.9	74.0
85°	116.3	144.4	454.5	1388.1	2554.2	1937.6	359.3	288.9	422.8	341.7	42.3
87.5°	7.0	10.6	151.5	158.5	225.5	130.4	63.4	42.3	91.6	91.6	24.7
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°	7380.6	7380.6	7380.6	7380.6	7380.6	7380.6	7380.6	7380.6	7380.6	7380.6	7380.6
2.5°	7405.3	7426.4	7412.3	7380.6	7327.8	7264.4	7179.8	7109.4	7049.5	7017.8	7056.5
5°	7451.1	7479.3	7408.8	7250.3	7010.7	6750.0	6454.1	6225.1	6045.4	5989.1	5967.9
7.5°	7521.6	7539.2	7348.9	6996.6	6489.3	5872.8	5333.8	4879.3	4527.0	4421.3	4266.3
10°	7613.1	7602.6	7243.2	6588.0	5696.7	4770.1	3935.2	3315.1	2846.6	2677.5	2663.4
12.5°	7754.1	7697.7	7109.4	6031.3	4752.5	3540.6	2508.4	1962.3	1666.4	1567.7	1546.6
15°	7930.2	7796.3	6898.0	5379.6	3639.2	2286.4	1546.6	1381.0	1342.3	1335.2	1328.2
17.5°	8138.1	7926.7	6619.7	4579.9	2557.7	1483.2	1292.9	1289.4	1292.9	1285.9	1282.4
20°	8419.9	8064.1	6288.5	3632.2	1691.0	1250.7	1233.0	1233.0	1236.6	1233.0	1233.0
22.5°	8719.4	8226.1	5879.8	2772.6	1275.3	1187.2	1183.7	1190.8	1197.8	1194.3	1194.3
25°	9089.3	8437.5	5340.8	1898.9	1141.4	1134.4	1137.9	1152.0	1166.1	1169.6	1166.1
27.5°	9624.8	8698.2	4763.1	1307.0	1046.3	1053.4	1088.6	1123.8	1145.0	1148.5	1148.5
30°	10227.2	8987.1	4009.1	1060.4	968.8	968.8	1011.1	1078.0	1123.8	1130.9	1134.4
32.5°	11002.3	9321.8	3174.2	954.7	894.8	887.8	926.5	1007.6	1092.1	1116.8	1116.8
35°	11960.5	9716.4	2360.4	887.8	842.0	824.4	845.5	912.5	1021.7	1092.1	1099.2
37.5°	13084.3	10089.8	1726.3	827.9	792.7	768.0	782.1	834.9	923.0	1028.7	1056.9
40°	14123.6	10421.0	1289.4	778.6	743.3	725.7	736.3	761.0	834.9	933.6	951.2
42.5°	15258.0	10678.1	1025.2	725.7	694.0	687.0	687.0	697.5	746.9	803.2	806.8
45°	16388.9	10769.7	859.6	662.3	641.2	648.2	644.7	637.7	658.8	651.8	651.8
47.5°	17195.6	10660.5	711.6	602.4	602.4	613.0	595.4	570.7	560.2	517.9	521.4
50°	17748.7	10262.4	584.8	532.0	560.2	574.2	539.0	500.3	461.5	415.7	405.1
52.5°	17977.7	9554.3	479.1	440.4	496.7	514.4	472.1	426.3	366.4	327.6	317.1
55°	17829.8	8680.6	398.1	359.3	419.2	440.4	398.1	345.3	278.3	236.0	229.0
57.5°	17178.0	7637.8	338.2	285.4	334.7	348.8	320.6	264.2	197.3	155.0	155.0
60°	16050.7	6559.8	274.8	225.5	250.1	271.3	243.1	190.2	133.9	95.1	88.1
62.5°	13764.3	5326.7	221.9	176.1	176.1	193.8	169.1	137.4	84.6	49.3	45.8
65°	9938.3	3653.3	176.1	130.4	126.8	126.8	105.7	91.6	49.3	21.1	14.1
67.5°	5400.7	2060.9	140.9	98.6	88.1	84.6	66.9	52.8	21.1	3.5	0.0
70°	2124.4	792.7	109.2	66.9	56.4	52.8	35.2	24.7	14.1	0.0	0.0
71°	1440.9	546.1	95.1	56.4	45.8	38.8	28.2	21.1	10.6	0.0	0.0
72.5°	824.4	338.2	74.0	42.3	35.2	28.2	21.1	14.1	10.6	0.0	0.0
75°	359.3	172.6	45.8	31.7	24.7	17.6	14.1	10.6	3.5	0.0	0.0
77.5°	183.2	95.1	31.7	24.7	14.1	10.6	7.0	3.5	0.0	0.0	0.0
80°	102.2	49.3	21.1	14.1	10.6	7.0	3.5	3.5	0.0	0.0	0.0
82.5°	56.4	28.2	10.6	7.0	3.5	0.0	0.0	0.0	0.0	0.0	0.0
85°	35.2	17.6	3.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	17.6	7.0	0.0	0.0	0.0	0.0	3.5	3.5	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)