

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: P457983

Luminaire Tested: **GALN-SA9B-760-U-T3-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457983  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-13)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA9B-760-U-T3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37873 lumens  
Efficiency: N/A  
Efficacy: 104.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B3 - U0 - G5

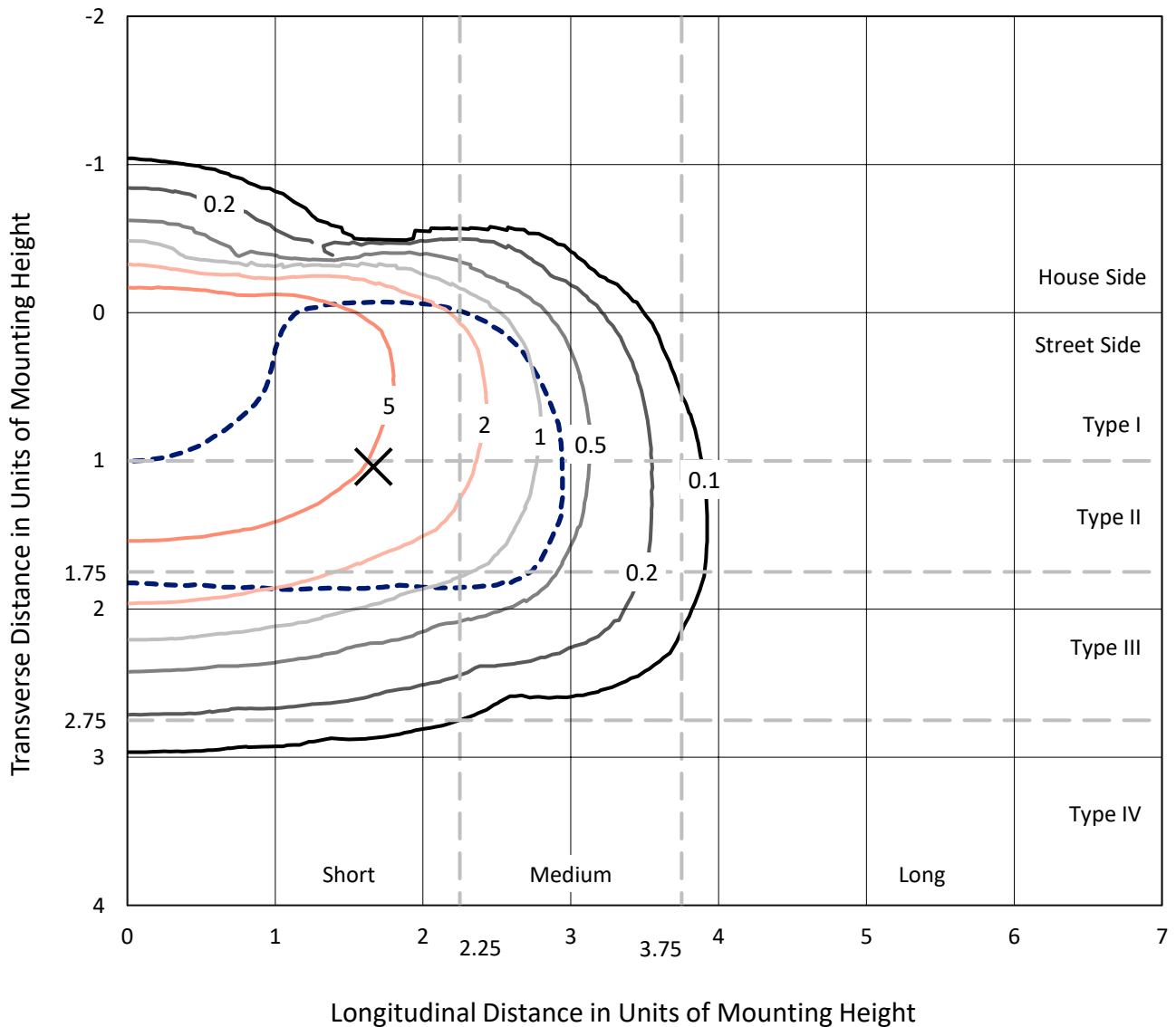
Input Watts (W): 364  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

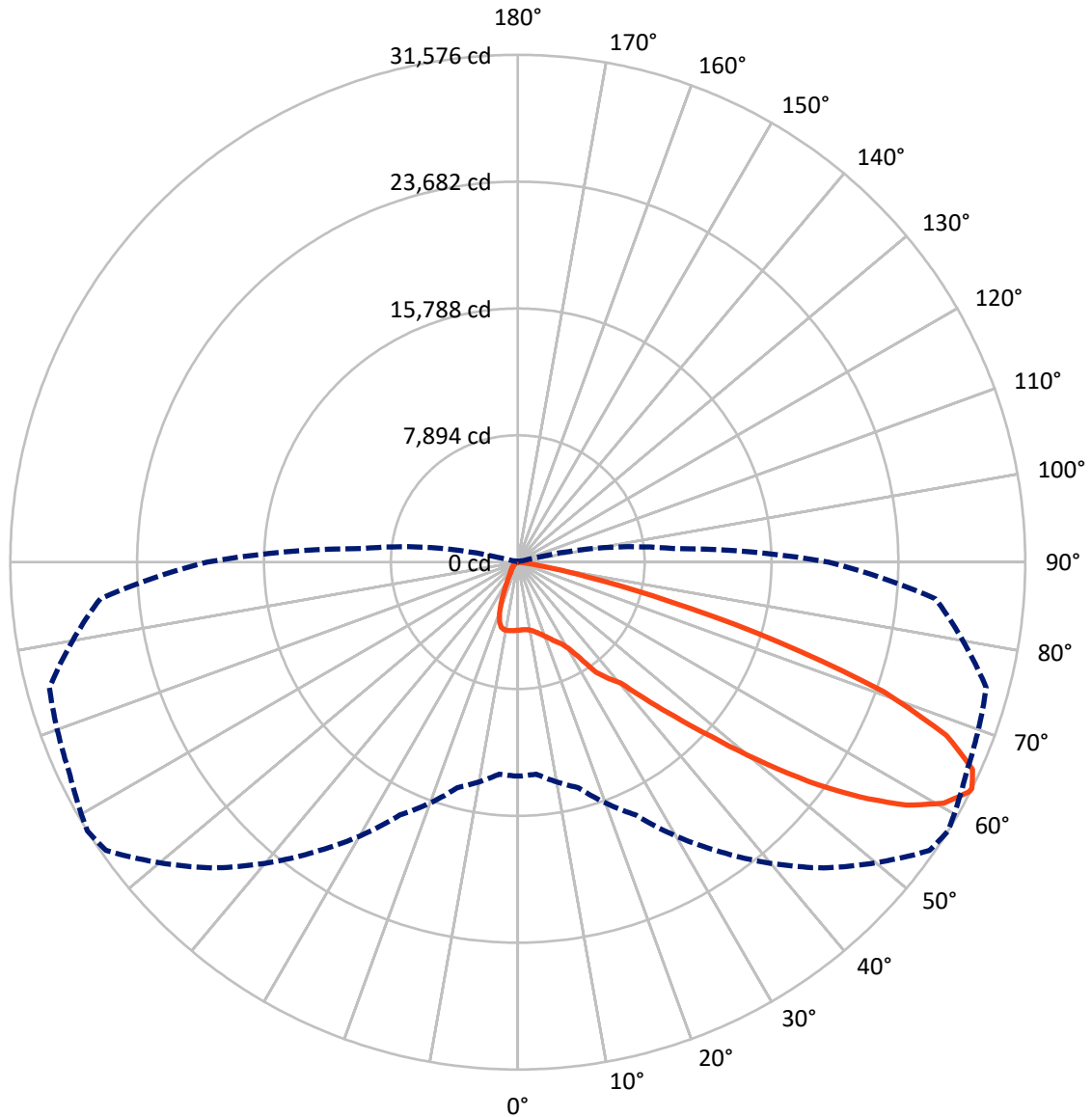
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.2 fc  
 Type III - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3921.5	0.0	3921.5
	% Fixture	10.4	0.0	10.4
<b>Street Side</b>	Lumens	33951.5	0.0	33951.5
	% Fixture	89.6	0.0	89.6
<b>Total</b>	Lumens	37873.0	0.0	37873.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	396.9	1.0
10°-20°	1081.1	2.9
20°-30°	1876.3	5.0
30°-40°	3447.9	9.1
40°-50°	6490.5	17.1
50°-60°	11101.5	29.3
60°-70°	10629.7	28.1
70°-80°	2710.6	7.2
80°-90°	138.6	0.4
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°	37873.0	100.0
0°-180°	37873.0	100.0

**Coefficient of Utilization**



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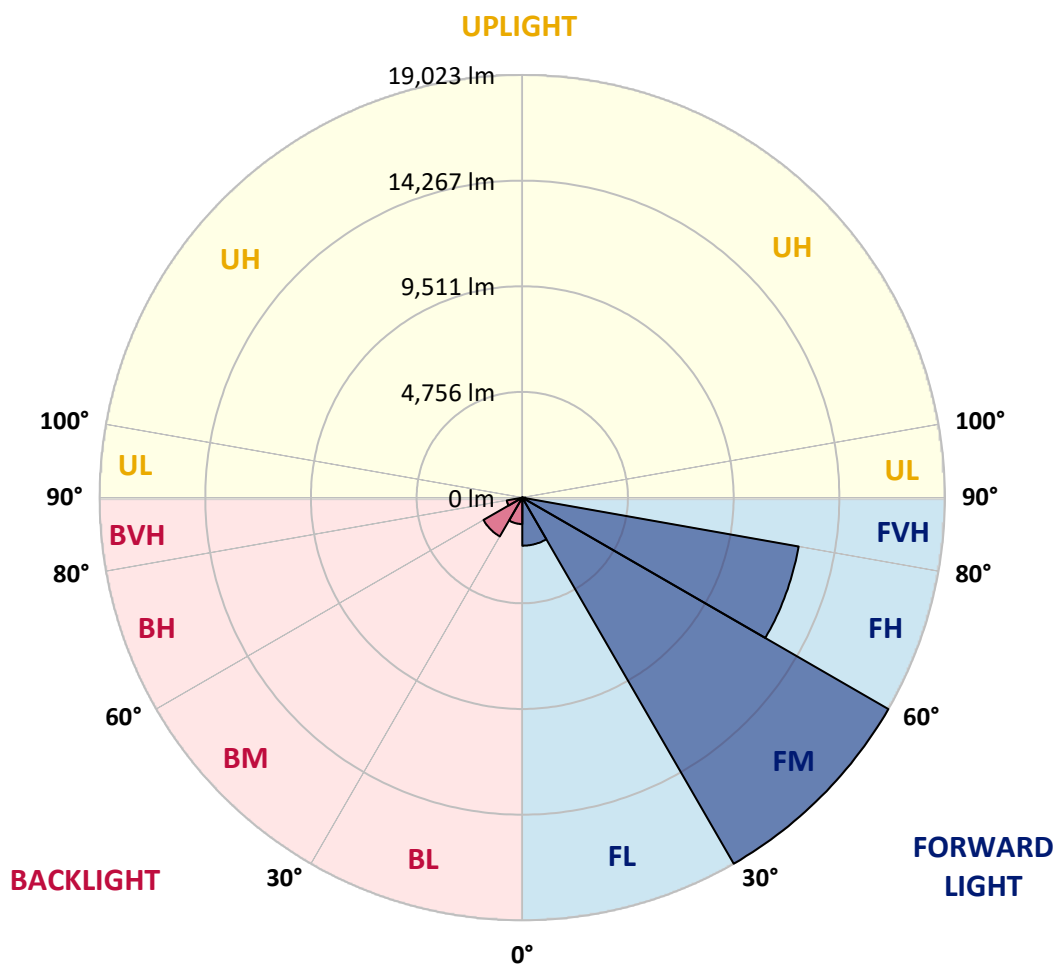
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2165.0	5.7			
FM	(30°-60°)	19022.8	50.2			
FH	(60°-80°)	12630.4	33.3			G5
FVH	(80°-90°)	133.2	0.4			G2/225
BL	(0°-30°)	1189.3	3.1	B3/2500		
BM	(30°-60°)	2017.0	5.3	B2/2500		
BH	(60°-80°)	709.9	1.9	B2/1000		G2/1000
BVH	(80°-90°)	5.4	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 III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4240.0	4240.0	4240.0	4240.0	4240.0	4240.0	4240.0	4240.0	4240.0	4240.0	4240.0
2.5°	4134.5	4148.8	4163.0	4168.7	4188.7	4208.7	4222.9	4220.1	4242.9	4254.3	4254.3
5°	3969.1	3969.1	4006.2	4040.4	4097.5	4154.5	4208.7	4220.1	4262.8	4302.8	4317.0
7.5°	3829.4	3838.0	3866.5	3929.2	4006.2	4106.0	4214.4	4240.0	4314.2	4402.6	4439.6
10°	3763.8	3769.5	3806.6	3872.2	3969.1	4106.0	4257.1	4305.6	4419.7	4559.4	4610.7
12.5°	3749.6	3758.1	3795.2	3869.3	3980.6	4145.9	4351.2	4402.6	4567.9	4747.6	4824.6
15°	3775.3	3781.0	3818.0	3897.9	4020.5	4217.2	4476.7	4548.0	4744.7	4952.9	5052.7
17.5°	3866.5	3860.8	3886.5	3952.0	4088.9	4305.6	4627.8	4713.4	4944.3	5229.5	5295.0
20°	4254.3	4217.2	4194.4	4137.4	4191.6	4431.1	4810.3	4935.8	5220.9	5511.8	5557.4
22.5°	5089.7	5007.1	4844.5	4622.1	4451.0	4602.2	5029.9	5175.3	5543.1	5828.3	5828.3
25°	6153.3	6047.8	5885.3	5400.5	4981.4	4884.4	5277.9	5460.4	5893.8	6181.8	6087.7
27.5°	7484.9	7402.2	7085.7	6521.1	5879.6	5377.7	5565.9	5734.2	6204.6	6552.5	6355.8
30°	8568.5	8528.5	8269.1	7764.4	7057.2	6324.4	6102.0	6213.2	6618.1	7020.1	6817.7
32.5°	9483.7	9483.7	9218.6	8748.1	8086.6	7436.4	7011.6	7091.4	7479.2	7944.0	7567.6
35°	10490.3	10456.1	10242.2	9794.6	9053.2	8480.1	8306.1	8414.5	8765.2	9110.2	8183.5
37.5°	11548.2	11536.8	11314.3	10880.9	10276.4	9555.0	9147.3	9175.8	9355.4	9566.4	8904.9
40°	12697.3	12714.4	12423.5	12155.5	11585.2	10846.7	10065.4	9885.8	10054.0	10650.0	10236.5
42.5°	14054.5	14014.6	13889.2	13524.2	13065.1	12623.1	11685.0	11619.4	11767.7	12406.4	11958.8
45°	15631.4	15688.4	15471.7	15269.2	14961.3	14593.5	13809.3	13695.3	13857.8	14850.1	14214.2
47.5°	17211.0	17156.9	17296.6	17259.5	17424.9	17151.2	16458.3	16224.5	16615.1	17556.1	16620.8
50°	18414.3	18474.2	18765.1	19189.9	19899.9	20053.9	19389.5	19309.7	19483.6	20088.1	18773.6
52.5°	19195.6	19395.2	19851.4	20943.5	22223.8	23218.9	22714.2	22671.5	22600.2	22762.7	20832.3
55°	19706.0	19908.5	20504.4	22112.6	24316.7	25933.5	25959.1	25776.6	25306.2	25189.3	22757.0
57.5°	19392.4	19432.3	20282.0	22431.9	25477.2	27869.6	28707.9	28525.4	27655.7	27213.7	24456.4
60°	17430.6	17513.3	18696.6	21223.0	24972.5	28502.6	30529.9	30447.2	29494.9	28995.9	25779.5
62.5°	13954.7	14194.3	15411.8	18229.0	22625.8	27436.2	31268.4	31502.2	30760.9	30073.7	26195.8
63°	13316.0	13239.0	14525.0	17356.5	22004.2	26908.6	31279.8	31576.4	30817.9	30176.3	26081.7
65°	9857.3	10088.2	10923.7	13686.7	18311.7	24453.6	30575.5	31100.2	30606.9	29723.0	24818.6
67.5°	5534.6	5523.2	6447.0	8956.2	12817.0	19181.4	27647.2	28756.3	28653.7	26672.0	20572.8
70°	2708.8	2751.6	3130.8	4642.1	7433.6	13233.3	22973.7	24171.3	24208.4	20949.2	14225.6
72.5°	1226.1	1246.1	1516.9	2261.2	3820.9	7045.8	15831.0	16974.4	16763.4	13350.2	7855.6
75°	647.3	690.0	835.5	1137.7	1842.0	2905.6	8611.2	9717.6	9275.6	6099.1	2891.3
77.5°	479.0	493.3	567.4	724.3	986.6	1132.0	3715.4	4419.7	4140.2	2207.0	958.1
80°	350.7	362.1	422.0	513.3	621.6	576.0	1400.0	1605.3	1440.0	749.9	293.7
82.5°	213.9	216.7	308.0	382.1	390.6	322.2	461.9	496.1	519.0	422.0	159.7
85°	77.0	96.9	208.2	276.6	231.0	162.5	193.9	213.9	233.8	268.0	94.1
87.5°	8.6	11.4	99.8	134.0	65.6	59.9	71.3	79.8	85.5	99.8	45.6
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°	4240.0	4240.0	4240.0	4240.0	4240.0	4240.0	4240.0	4240.0	4240.0	4240.0	4240.0
2.5°	4265.7	4277.1	4268.5	4254.3	4251.4	4242.9	4225.8	4225.8	4225.8	4231.5	4225.8
5°	4328.4	4337.0	4317.0	4288.5	4257.1	4217.2	4174.4	4148.8	4145.9	4140.2	4126.0
7.5°	4448.2	4459.6	4414.0	4345.5	4260.0	4163.0	4071.8	3986.3	3946.3	3915.0	3915.0
10°	4622.1	4633.5	4542.3	4419.7	4248.6	4051.8	3835.1	3638.4	3484.4	3413.1	3396.0
12.5°	4830.3	4836.0	4684.8	4471.0	4188.7	3809.5	3347.5	2917.0	2617.6	2480.7	2466.5
15°	5058.4	5018.5	4818.9	4491.0	4017.6	3310.5	2512.1	1984.6	1673.8	1582.5	1616.7
17.5°	5289.3	5215.2	4921.5	4459.6	3632.7	2512.1	1688.0	1354.4	1257.5	1231.8	1231.8
20°	5506.0	5403.4	4995.6	4322.7	2965.5	1730.8	1251.8	1171.9	1154.8	1137.7	1140.6
22.5°	5722.8	5565.9	5061.2	4017.6	2209.8	1237.5	1120.6	1094.9	1072.1	1049.3	1046.5
25°	5933.8	5717.1	5086.9	3453.0	1505.5	1063.6	1023.7	989.4	943.8	918.2	912.4
27.5°	6153.3	5899.5	5069.8	2740.2	1097.8	952.4	912.4	864.0	809.8	764.2	764.2
30°	6575.3	6247.4	5009.9	1970.3	923.9	838.3	787.0	710.0	650.1	604.5	601.6
32.5°	7151.3	6700.8	4804.6	1385.8	821.2	738.5	661.5	576.0	513.3	479.0	479.0
35°	7664.6	7157.0	4419.7	1020.8	738.5	641.6	547.5	464.8	416.3	393.5	384.9
37.5°	8445.8	7824.2	3889.3	829.8	658.7	556.0	459.1	382.1	342.2	325.1	325.1
40°	9617.8	8639.7	3239.2	727.1	581.7	473.3	382.1	322.2	290.8	270.9	270.9
42.5°	11072.0	9637.7	2580.5	653.0	510.4	407.7	319.4	273.7	245.2	231.0	228.1
45°	12902.6	10689.9	1987.4	584.5	453.4	347.9	270.9	231.0	202.4	193.9	196.7
47.5°	14813.0	11616.6	1539.8	524.7	393.5	293.7	231.0	199.6	179.6	168.2	168.2
50°	16444.0	12255.3	1169.1	456.2	347.9	248.1	202.4	179.6	162.5	156.8	154.0
52.5°	17807.0	12440.6	895.3	396.3	305.1	213.9	179.6	162.5	148.3	139.7	139.7
55°	18967.5	12278.1	701.4	333.6	256.6	185.3	159.7	145.4	128.3	119.8	116.9
57.5°	19646.1	11756.3	536.1	276.6	208.2	154.0	139.7	122.6	102.7	88.4	88.4
60°	19988.3	10997.8	410.6	228.1	159.7	122.6	114.1	91.2	71.3	59.9	57.0
62.5°	19577.7	9991.3	310.8	179.6	119.8	91.2	77.0	65.6	45.6	34.2	34.2
63°	19323.9	9700.5	299.4	171.1	111.2	85.5	71.3	59.9	39.9	31.4	28.5
65°	17615.9	8431.6	245.2	136.9	88.4	59.9	48.5	42.8	28.5	14.3	11.4
67.5°	13989.0	6449.9	193.9	102.7	62.7	42.8	28.5	25.7	8.6	0.0	0.0
70°	9458.1	4165.9	151.1	74.1	42.8	25.7	14.3	11.4	2.9	0.0	0.0
72.5°	4932.9	2135.7	116.9	54.2	25.7	17.1	8.6	2.9	0.0	0.0	0.0
75°	1745.1	727.1	85.5	34.2	17.1	8.6	2.9	0.0	0.0	0.0	0.0
77.5°	527.5	270.9	54.2	25.7	11.4	5.7	0.0	0.0	0.0	0.0	0.0
80°	185.3	99.8	31.4	17.1	8.6	2.9	0.0	0.0	0.0	0.0	0.0
82.5°	91.2	48.5	20.0	14.3	8.6	2.9	0.0	0.0	0.0	0.0	0.0
85°	51.3	31.4	17.1	14.3	8.6	5.7	0.0	0.0	0.0	0.0	0.0
87.5°	37.1	22.8	17.1	14.3	11.4	5.7	2.9	0.0	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)