

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: P383714

Luminaire Tested: **GLEON-SA9D-735-U-T4FT-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P383714  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA9D-735-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(9) 70 CRI, 3500K, 1200mA 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: 45887.1 lumens  
Efficiency: N/A  
Efficacy: 79.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5

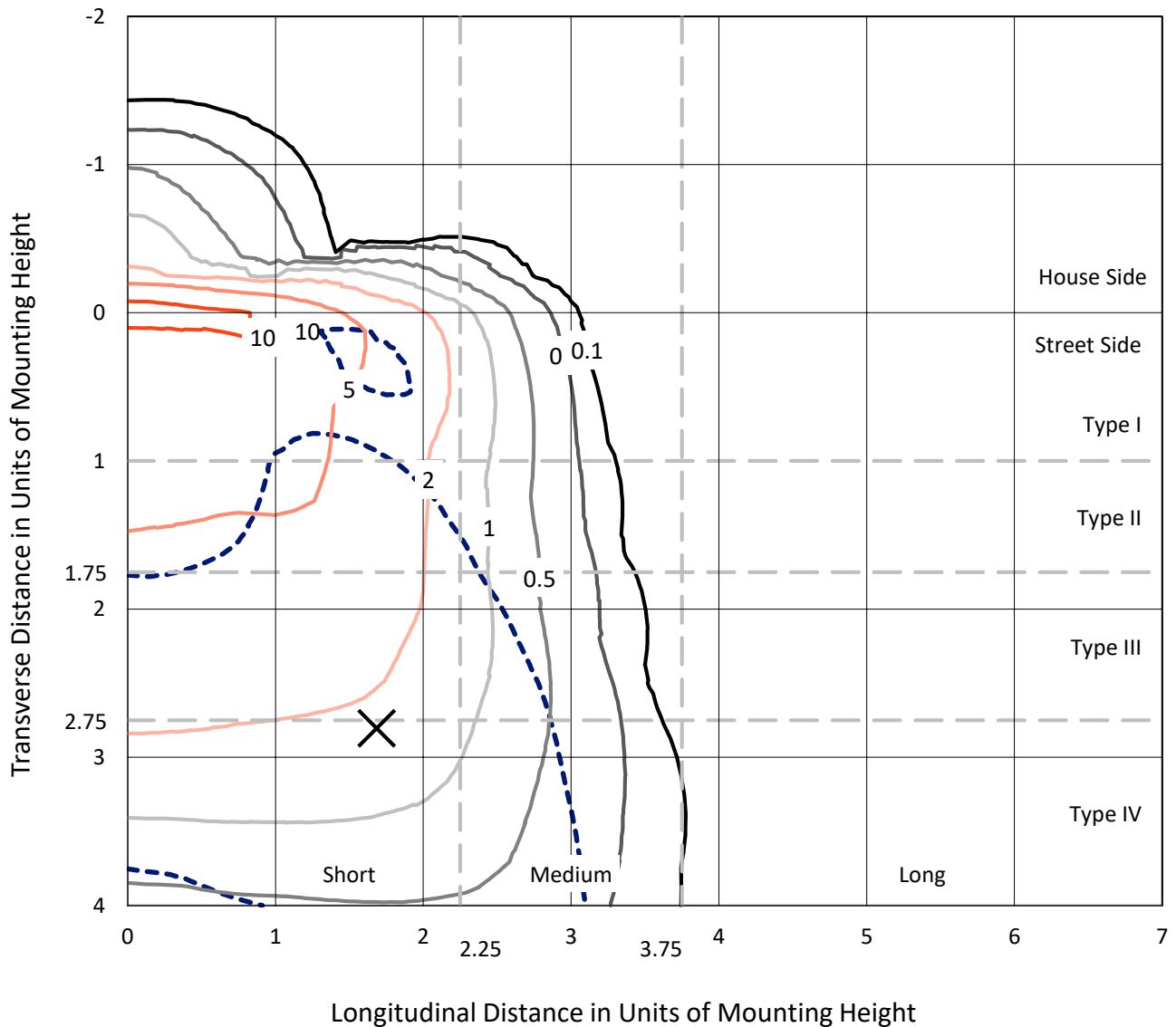
Input Watts (W): 575  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

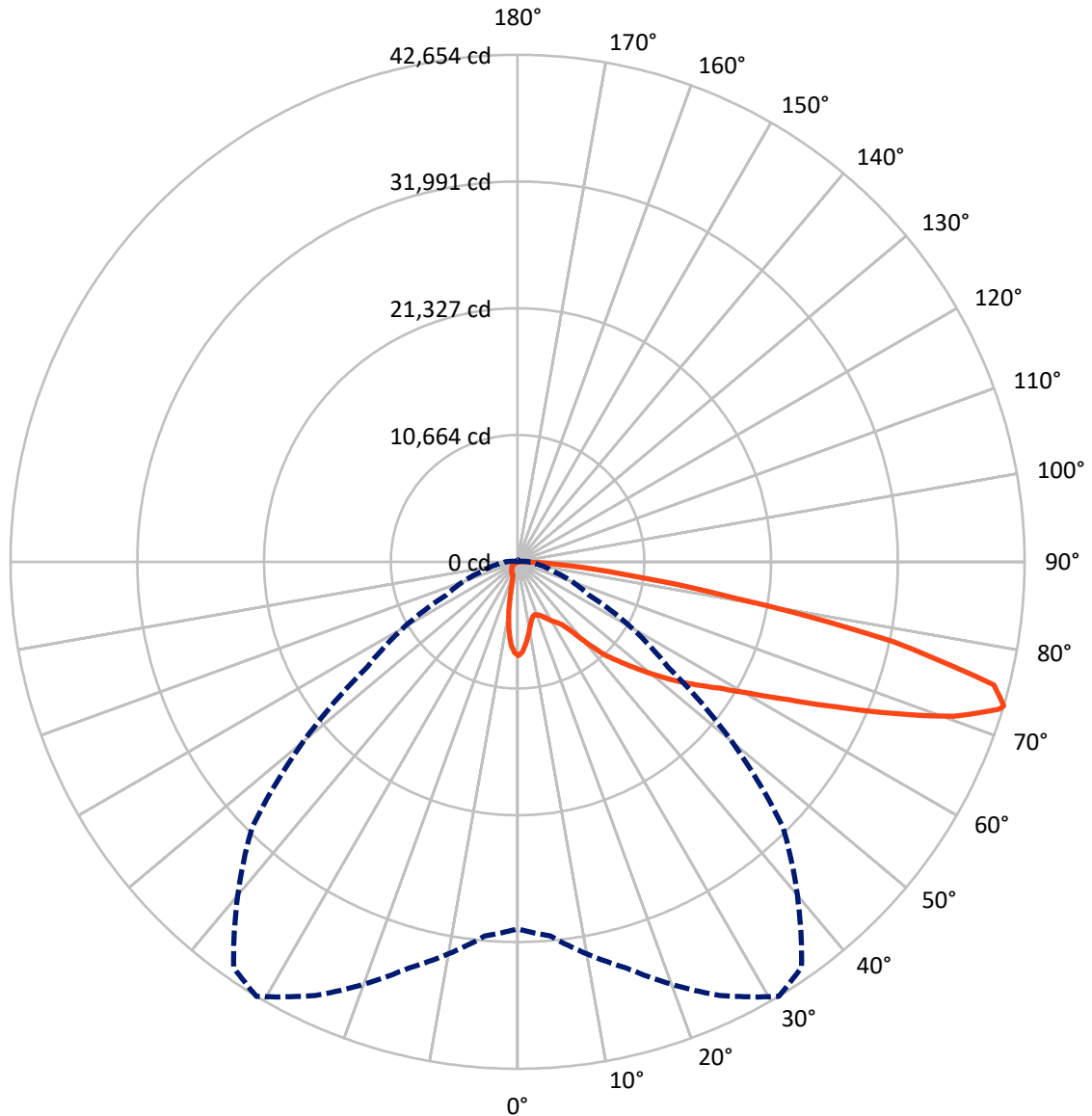
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc  
 Type IV - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 31-Deg Lateral      - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4182.8	0.0	4182.8
	% Fixture	9.1	0.0	9.1
<b>Street Side</b>	Lumens	41704.3	0.0	41704.3
	% Fixture	90.9	0.0	90.9
<b>Total</b>	Lumens	45887.1	0.0	45887.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	654.6	1.4
10°-20°	1421.3	3.1
20°-30°	2129.6	4.6
30°-40°	3388.1	7.4
40°-50°	6050.3	13.2
50°-60°	9388.3	20.5
60°-70°	12480.5	27.2
70°-80°	9387.9	20.5
80°-90°	986.5	2.1
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°	45887.1	100.0
0°-180°	45887.1	100.0



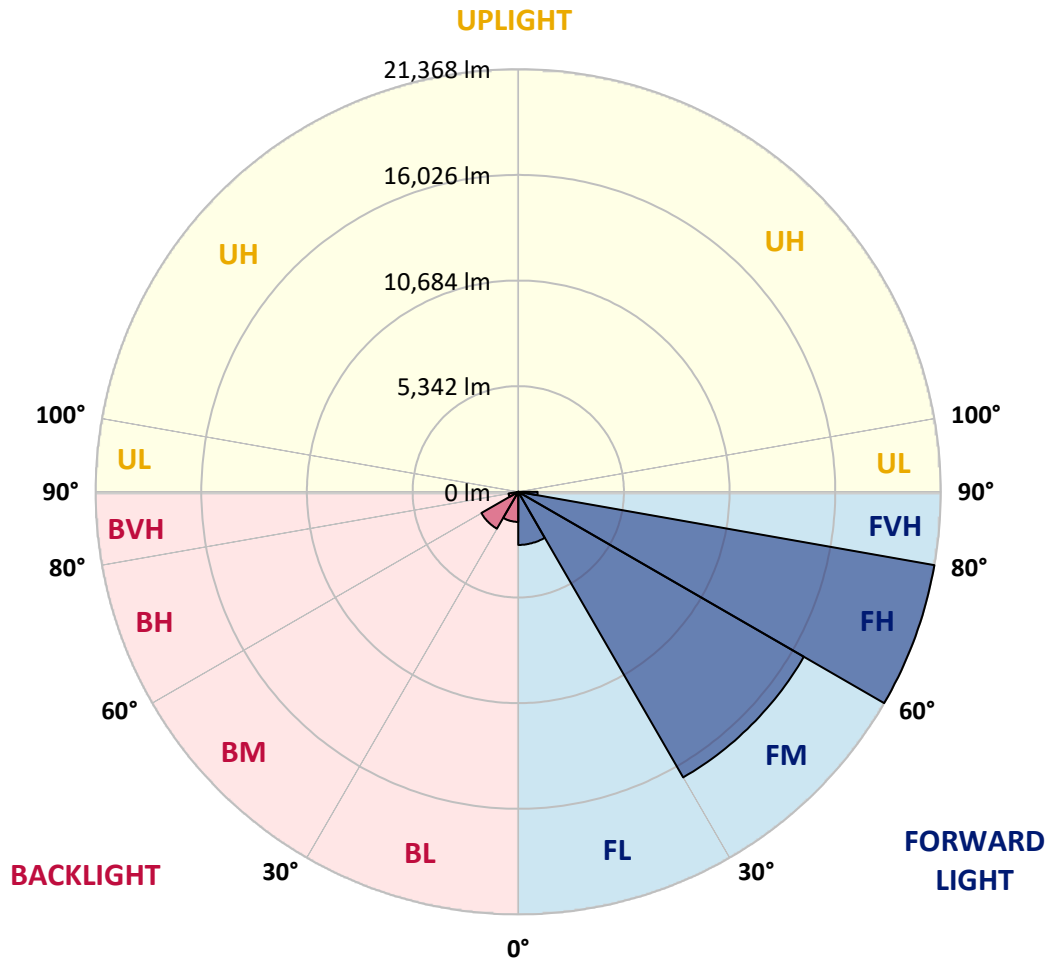
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2684.5	5.9			
FM (30°-60°)	16673.8	36.3			
FH (60°-80°)	21367.9	46.6			G5
FVH (80°-90°)	978.2	2.1			G5
BL (0°-30°)	1521.0	3.3	B3/2500		
BM (30°-60°)	2153.0	4.7	B2/2500		
BH (60°-80°)	500.4	1.1	B2/1000		G2/1000
BVH (80°-90°)	8.3	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°	31°	35°	45°	55°	65°	75°	85°
0°	7895.0	7895.0	7895.0	7895.0	7895.0	7895.0	7895.0	7895.0	7895.0	7895.0	7895.0
2.5°	7481.8	7513.2	7546.9	7553.6	7609.8	7612.0	7692.9	7753.6	7814.1	7872.5	7892.7
5°	6713.8	6765.6	6826.1	6886.7	7005.8	7052.9	7250.5	7452.7	7645.8	7829.8	7919.6
7.5°	5894.3	5952.7	6038.0	6188.5	6320.9	6413.0	6725.1	7084.3	7443.6	7782.7	7978.1
10°	5146.5	5200.5	5290.3	5449.6	5654.0	5779.8	6199.6	6698.1	7225.8	7740.0	8065.6
12.5°	4670.5	4699.8	4749.1	4919.8	5103.9	5245.4	5739.4	6356.9	7046.2	7737.8	8207.1
15°	4582.9	4592.0	4551.5	4627.8	4771.6	4908.5	5409.3	6080.7	6909.2	7773.7	8391.2
17.5°	4722.2	4717.6	4582.9	4574.0	4688.5	4800.7	5247.6	5889.8	6812.7	7856.8	8629.2
20°	4933.2	4917.5	4684.0	4641.3	4762.5	4868.1	5236.3	5818.0	6776.7	7996.0	8918.9
22.5°	5213.9	5187.0	4820.9	4776.0	4906.3	5016.3	5375.6	5887.6	6808.2	8182.3	9255.7
25°	5562.0	5521.6	5056.7	5007.3	5139.8	5249.8	5624.9	6087.4	6902.5	8409.2	9682.3
27.5°	5954.9	5896.5	5434.0	5306.0	5456.4	5570.9	5957.2	6392.7	7050.7	8649.4	10205.6
30°	6325.4	6249.1	5831.4	5620.3	5804.5	5932.5	6316.5	6756.5	7288.7	9019.9	10921.8
32.5°	6698.1	6612.8	6186.2	5934.7	6100.9	6240.1	6686.9	7257.2	7735.6	9585.8	11873.9
35°	7555.9	7466.1	6942.9	6527.5	6525.2	6603.8	7205.6	7942.1	8326.1	10373.9	13010.1
37.5°	8999.7	8948.1	8449.6	7661.4	7450.3	7362.8	7912.9	8759.4	9174.9	11458.5	14292.3
40°	10580.5	10535.6	9976.5	9262.5	8941.4	8725.8	8927.9	9897.9	10373.9	12783.3	15601.3
42.5°	12365.6	12152.3	11155.4	10942.1	10654.6	10490.7	10308.8	11301.3	11847.0	14224.8	16899.2
45°	13986.8	13627.6	12334.2	12010.9	11945.7	11986.1	12087.2	13187.5	13504.1	15938.1	18192.6
47.5°	14952.4	14669.5	13677.0	13367.1	13349.2	13616.3	14379.8	15318.4	15154.5	17431.4	19331.0
50°	15870.8	15614.8	14790.7	14867.0	14950.1	15313.9	16982.3	17509.9	16661.2	18785.4	20375.1
52.5°	16614.1	16223.3	15792.2	16221.0	16629.7	17215.8	19667.9	19477.0	17730.0	19863.2	21268.8
55°	17042.9	16865.5	17074.3	17505.5	18273.4	19225.5	22202.9	21113.9	18511.4	20846.6	21863.9
57.5°	18614.7	18266.6	18682.1	19054.8	20056.3	21387.9	24374.2	22333.1	19075.0	21455.2	22000.8
60°	20516.6	20235.9	20480.6	21100.4	22452.2	24017.3	26404.2	23327.9	19369.2	21845.9	21646.1
62.5°	23543.5	23173.0	23020.2	23714.1	25506.0	27214.7	27944.5	24017.3	19304.1	21673.0	20429.0
65°	27598.7	27214.7	26532.2	27160.9	29440.0	30645.8	29666.8	24163.2	18855.0	20274.1	17352.8
67.5°	31752.8	31474.4	30890.5	31950.4	34007.2	34395.6	31487.8	23808.4	17408.9	16438.8	12260.1
70°	34496.7	34377.7	34757.2	37101.4	38936.0	38823.6	33158.4	21902.0	13569.2	10109.0	6064.9
72.5°	32518.5	33088.9	35891.1	40141.8	42382.7	41466.5	32300.7	16818.3	7755.8	3889.1	1753.7
73°	30879.3	31609.1	35381.4	40256.3	42654.4	41650.7	31579.8	15437.4	6610.5	3069.5	1329.3
75°	21482.1	22378.1	29291.8	37492.1	41383.4	39683.6	26323.3	9448.8	3062.7	1360.7	536.7
77.5°	10430.1	11092.5	16129.0	27089.0	32183.9	31005.1	16387.2	3520.9	1383.2	851.1	247.0
80°	3893.6	4329.2	7001.3	13787.0	18599.0	19086.3	7207.8	1331.6	920.6	684.9	125.8
82.5°	1019.4	1136.2	2582.2	6148.0	9531.9	9976.5	2272.4	671.4	673.6	563.6	76.4
85°	325.6	372.7	806.1	2759.6	4490.9	3943.0	592.8	325.6	489.5	419.9	42.7
87.5°	40.4	51.6	256.0	648.9	990.2	550.2	92.0	96.5	208.9	233.5	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°	7895.0	7895.0	7895.0	7895.0	7895.0	7895.0	7895.0	7895.0	7895.0	7895.0	7895.0
2.5°	7912.9	7901.7	7904.0	7845.6	7807.4	7731.0	7652.5	7616.5	7578.3	7562.7	7578.3
5°	7953.4	7933.2	7874.7	7695.1	7504.3	7257.2	7026.0	6850.9	6630.8	6570.2	6633.0
7.5°	8016.2	7975.8	7805.2	7439.2	7014.7	6543.2	6013.3	5627.1	5310.5	5106.1	5180.2
10°	8108.3	8031.9	7688.4	7066.4	6307.4	5472.1	4719.9	4133.8	3718.5	3547.8	3541.1
12.5°	8263.2	8119.6	7544.7	6581.4	5442.9	4329.2	3343.4	2708.0	2371.2	2153.4	2148.9
15°	8433.9	8222.8	7362.8	5999.8	4437.0	3100.9	2153.4	1670.6	1452.8	1383.2	1374.2
17.5°	8642.7	8341.8	7127.0	5283.6	3383.8	2054.6	1405.6	1266.4	1257.4	1250.7	1250.7
20°	8905.4	8483.2	6823.9	4464.0	2400.4	1372.0	1194.6	1203.6	1208.0	1199.1	1201.3
22.5°	9210.8	8627.0	6462.4	3583.8	1623.4	1147.4	1142.9	1154.2	1158.7	1154.2	1156.4
25°	9565.6	8793.2	6022.3	2660.9	1172.2	1089.1	1100.3	1116.0	1127.2	1127.2	1127.2
27.5°	10005.7	8995.2	5492.3	1856.9	1012.7	1028.4	1059.8	1089.1	1104.7	1109.3	1109.3
30°	10578.3	9246.7	4856.9	1273.1	920.6	947.6	1006.0	1062.1	1091.3	1095.8	1098.0
32.5°	11301.3	9529.6	4120.4	940.9	842.0	862.2	925.1	1019.4	1075.6	1084.5	1084.5
35°	12129.9	9857.5	3327.8	819.6	785.9	792.7	842.0	949.8	1048.6	1073.3	1075.6
37.5°	13037.0	10180.8	2530.6	765.7	738.7	738.7	774.7	866.7	983.5	1059.8	1068.9
40°	13883.6	10376.1	1773.9	723.1	696.1	696.1	727.5	794.9	904.9	1019.4	1044.2
42.5°	14665.0	10443.6	1235.0	682.6	655.6	662.4	689.3	743.3	826.3	940.9	963.3
45°	15468.8	10432.3	900.4	635.5	615.3	635.5	655.6	696.1	756.7	821.8	826.3
47.5°	16075.1	10338.0	714.0	590.5	577.1	604.0	622.0	648.9	682.6	678.2	678.2
50°	16643.2	10109.0	574.9	530.0	538.9	570.4	579.3	588.3	590.5	547.8	543.4
52.5°	17074.3	9751.9	460.3	464.8	500.7	532.2	523.2	509.7	487.3	435.6	426.6
55°	17218.1	9064.9	361.5	384.0	444.6	485.1	451.3	422.2	379.5	336.8	327.8
57.5°	16957.6	8177.9	294.2	298.7	374.9	408.7	370.5	336.8	289.6	253.8	247.0
60°	16405.2	7192.1	242.5	224.5	289.6	318.9	294.2	260.5	217.8	190.9	188.6
62.5°	15309.4	6141.3	199.8	175.1	220.0	244.7	229.1	204.4	168.4	150.4	148.2
65°	13005.6	4913.0	161.7	141.5	170.7	190.9	177.4	159.4	132.5	119.1	116.7
67.5°	9078.3	3321.0	132.5	116.7	134.7	150.4	139.2	130.2	105.5	103.3	105.5
70°	4378.6	1601.0	110.0	94.3	105.5	116.7	112.3	105.5	101.1	116.7	134.7
72.5°	1255.2	536.7	87.6	78.6	85.3	92.0	96.5	94.3	110.0	141.5	164.0
73°	965.5	433.4	83.1	74.1	80.9	89.8	94.3	92.0	112.3	143.7	164.0
75°	413.1	208.9	62.9	60.6	67.4	78.6	83.1	83.1	112.3	146.0	157.2
77.5°	186.4	112.3	40.4	47.1	58.4	62.9	69.6	69.6	89.8	112.3	112.3
80°	105.5	60.6	31.4	36.0	42.7	42.7	42.7	38.2	40.4	44.9	49.4
82.5°	67.4	40.4	24.7	29.2	26.9	22.5	18.0	18.0	15.7	18.0	22.5
85°	38.2	22.5	22.5	18.0	11.3	8.9	11.3	8.9	2.2	0.0	2.2
87.5°	22.5	13.5	6.7	0.0	0.0	0.0	0.0	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)