

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: P382629

Luminaire Tested: **GLEON-SA0B-735-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P382629  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0B-735-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43133.5 lumens  
Efficiency: N/A  
Efficacy: 102.9 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3

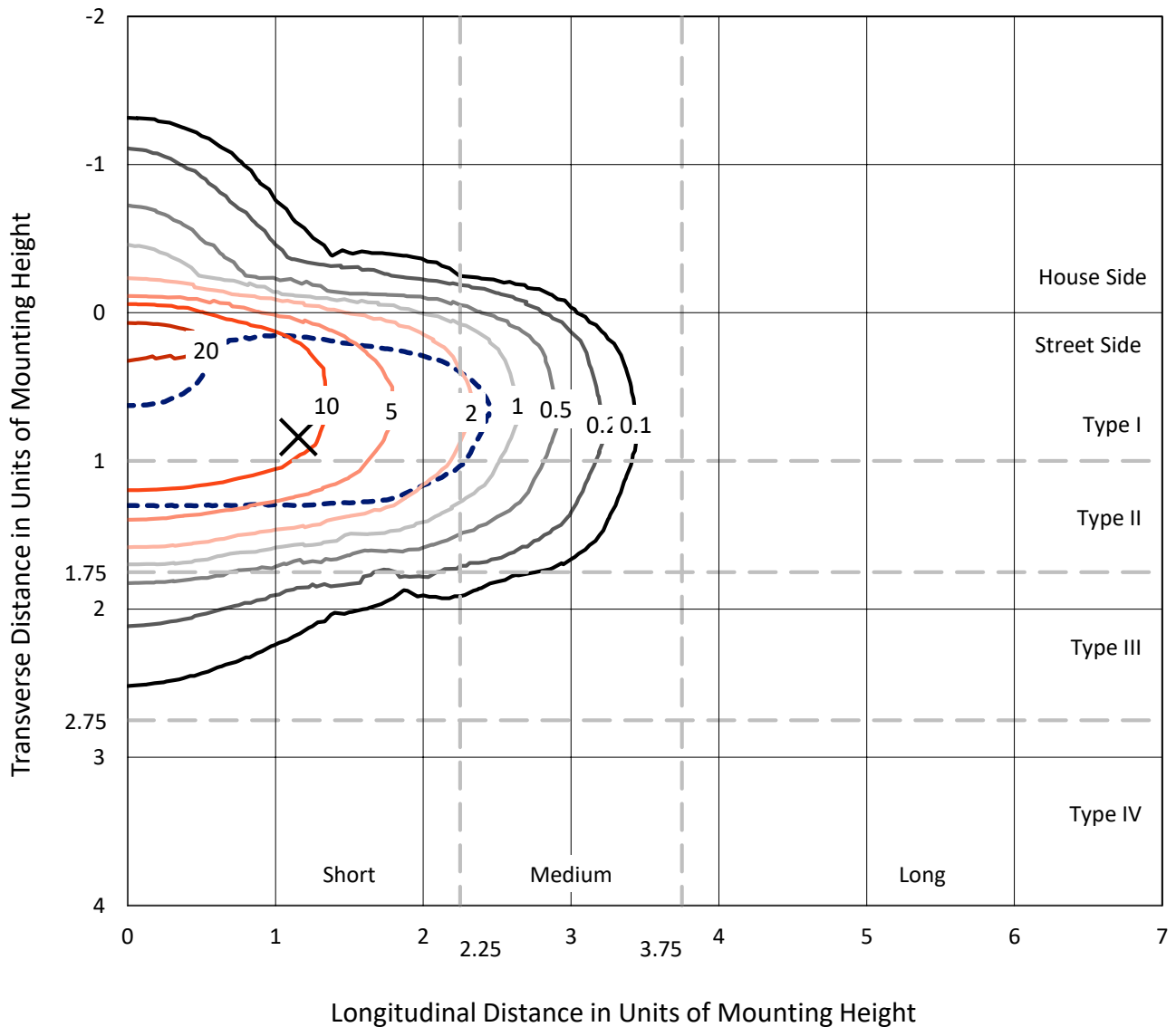
Input Watts (W): 419  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

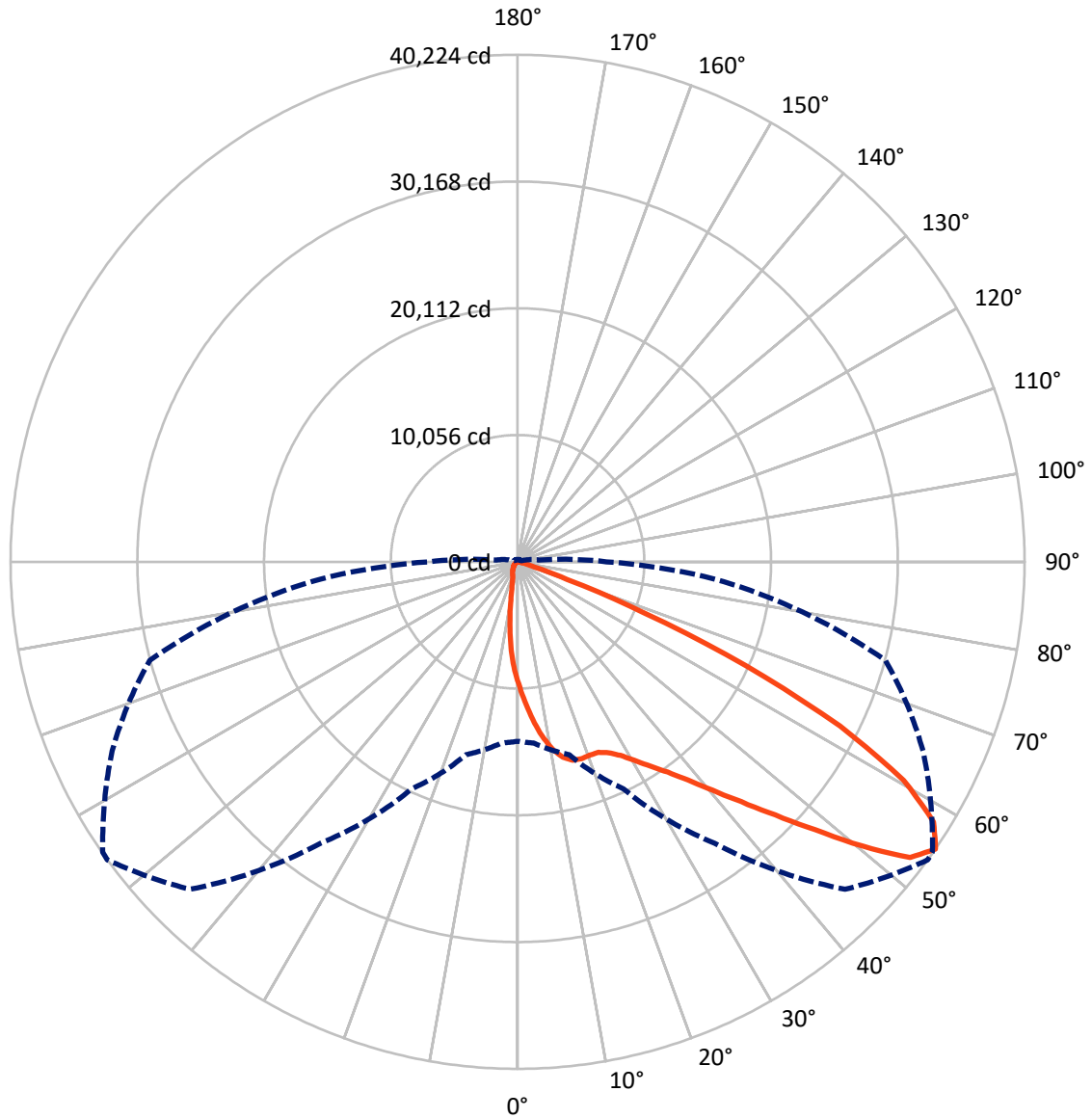
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 23.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2152.1	0.0	2152.1
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	40981.4	0.0	40981.4
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	43133.5	0.0	43133.5
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	889.6	2.1
10°-20°	2439.7	5.7
20°-30°	4165.4	9.7
30°-40°	6684.8	15.5
40°-50°	10682.4	24.8
50°-60°	11446.4	26.5
60°-70°	5876.9	13.6
70°-80°	890.2	2.1
80°-90°	58.0	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°	43133.5	100.0
0°-180°	43133.5	100.0

**Coefficient of Utilization**



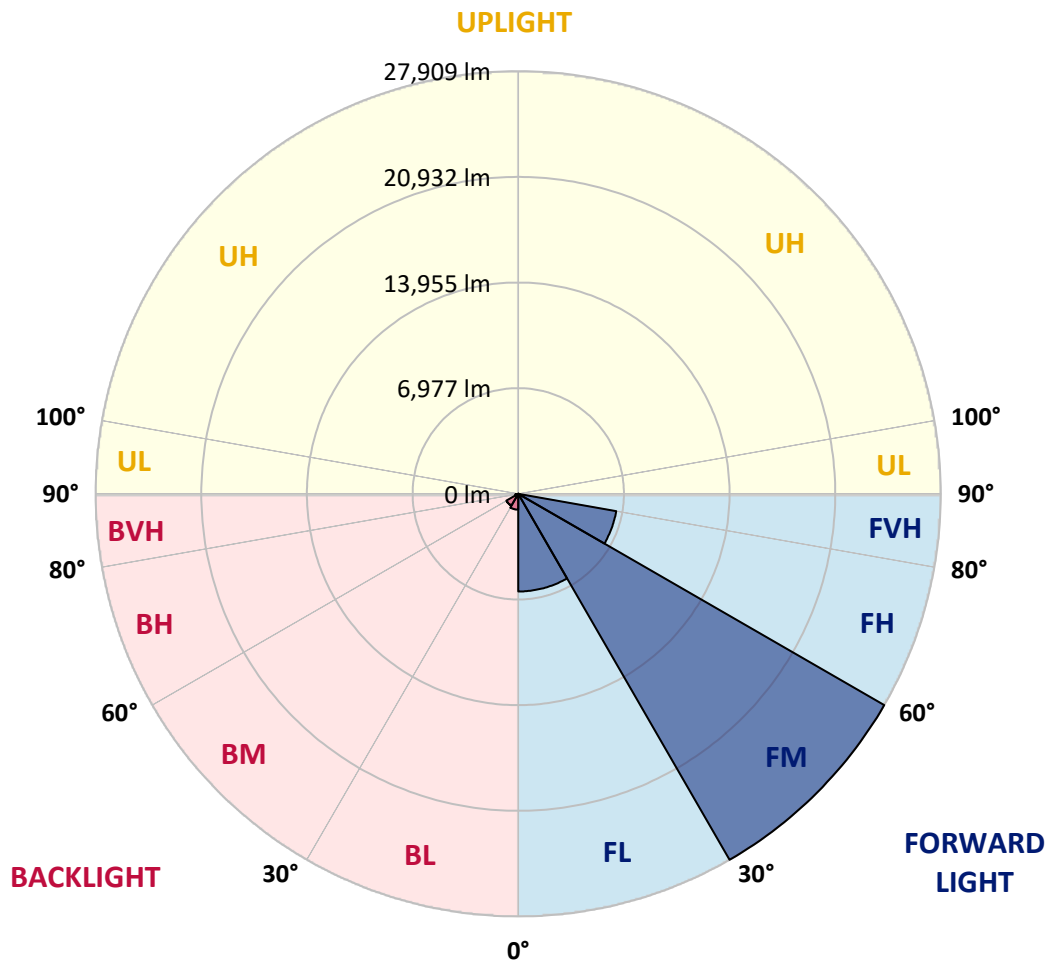
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	6447.7	14.9			
FM (30°-60°)	27909.2	64.7			
FH (60°-80°)	6568.8	15.2			G3/7500
FVH (80°-90°)	55.6	0.1			G1/100
BL (0°-30°)	1047.0	2.4	B3/2500		
BM (30°-60°)	904.3	2.1	B1/1000		
BH (60°-80°)	198.3	0.5	B1/500		G1/500
BVH (80°-90°)	2.3	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	9660.1	9660.1	9660.1	9660.1	9660.1	9660.1	9660.1	9660.1	9660.1	9660.1	9660.1
2.5°	12122.7	11942.0	11947.6	11865.7	11565.7	11331.1	11087.0	11029.2	10649.3	10250.7	9867.0
5°	14218.3	14086.0	14054.4	13896.0	13478.7	13037.3	12564.2	12454.2	11711.0	10895.2	10092.3
7.5°	15295.0	15296.8	15270.8	15213.0	14952.2	14523.8	13946.3	13830.9	12819.4	11595.5	10327.0
10°	14982.0	15052.8	15198.1	15389.9	15589.3	15535.2	15101.2	14996.9	13897.9	12337.0	10587.8
12.5°	14251.8	14261.2	14423.2	14738.0	15311.8	15900.3	15907.8	15872.4	14928.0	13111.8	10874.7
15°	13888.5	13923.9	13983.6	14186.6	14730.6	15673.1	16347.4	16397.7	15872.4	13935.1	11180.2
17.5°	14127.0	14177.3	14127.0	14151.2	14466.0	15313.6	16423.7	16552.3	16697.6	14749.2	11468.8
20°	14773.4	14820.0	14730.6	14631.8	14693.3	15209.3	16369.7	16543.0	17343.9	15471.9	11711.0
22.5°	15645.2	15663.8	15527.8	15365.7	15321.0	15563.2	16414.4	16593.3	17861.8	16125.7	11863.8
25°	16604.5	16621.2	16451.7	16265.5	16159.3	16258.0	16781.4	16915.5	18318.1	16749.8	11951.3
27.5°	17649.5	17664.4	17452.0	17222.9	17100.0	17103.7	17386.8	17530.2	18804.3	17461.3	12022.1
30°	18754.0	18746.6	18551.0	18232.5	18076.0	18072.3	18258.5	18403.8	19508.5	18374.0	12119.0
32.5°	19994.6	19979.7	19702.1	19307.3	19130.4	19156.4	19322.2	19406.0	20382.1	19346.4	12292.2
35°	21628.3	21585.4	21166.3	20676.4	20350.4	20341.1	20480.8	20547.9	21496.0	20523.7	12580.9
37.5°	23748.0	23708.9	23140.8	22429.2	21971.0	21799.6	21965.4	22051.1	23085.0	22034.4	13044.7
40°	25838.1	25798.9	25461.8	24809.8	24103.8	23692.1	23822.6	23913.9	25068.7	23867.3	13629.7
42.5°	27279.8	27313.3	27430.7	27484.7	26823.4	25959.2	26018.7	26113.7	27153.1	25826.9	14298.4
45°	27659.8	27732.5	28395.6	29697.6	29945.3	29271.1	28647.0	28699.2	29271.1	27786.5	14967.1
47.5°	26517.9	26652.0	27931.8	30353.4	32450.7	32927.6	31746.7	31677.7	31303.4	29371.7	15442.1
50°	23923.2	24046.1	25703.9	29286.0	33210.8	36418.4	35460.9	35258.0	33086.0	30319.8	15609.8
52.5°	20167.9	20316.9	21663.6	25925.6	31778.3	37975.7	38977.8	38808.3	34393.6	30394.3	15637.7
55°	14242.5	14423.2	15848.1	19869.8	27238.8	36736.9	40223.9	40173.6	35479.6	30196.9	15697.3
57.5°	8004.2	8134.6	9671.3	12737.4	19949.9	31998.1	38921.9	39255.3	36135.3	29854.1	15786.8
60°	3554.1	3589.5	4384.9	6340.8	11679.4	24454.1	35194.6	35757.1	35572.7	29395.9	15937.6
62.5°	1970.8	1941.0	1941.0	2635.8	5076.0	15138.5	28699.2	29628.7	33171.7	28853.8	15945.0
65°	1544.2	1516.3	1436.2	1447.3	1933.5	6718.9	19873.5	21525.8	28611.6	27264.9	15408.5
67.5°	1309.5	1285.3	1205.2	1173.6	1201.5	2216.6	10919.4	12635.0	21710.2	23135.2	13346.6
70°	1106.5	1089.7	1048.7	1009.6	938.8	1095.3	4178.1	5344.2	13378.1	15389.9	9110.6
72.5°	890.4	882.9	897.8	864.3	778.6	730.1	1428.7	1730.4	6009.2	6867.9	3753.4
75°	767.4	763.7	771.1	737.6	640.8	508.5	726.5	793.5	1695.1	1680.2	760.0
77.5°	499.2	504.8	638.9	624.0	551.4	339.0	376.3	406.1	514.1	385.6	231.0
80°	318.5	314.8	324.1	517.8	495.5	258.9	188.2	197.5	247.7	190.0	111.8
82.5°	193.8	190.0	212.4	242.2	249.6	180.7	115.5	117.4	154.6	123.0	59.6
85°	16.8	22.4	128.6	119.2	85.7	55.9	55.9	59.6	82.0	72.7	33.5
87.5°	0.0	0.0	22.4	33.5	18.6	20.5	20.5	22.4	31.7	31.7	16.8
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°	9660.1	9660.1	9660.1	9660.1	9660.1	9660.1	9660.1	9660.1	9660.1	9660.1	9660.1
2.5°	9667.6	9473.9	9082.7	8706.4	8387.9	8080.5	7730.4	7383.9	7221.8	7156.6	7089.5
5°	9684.4	9285.8	8479.2	7667.0	6825.1	6067.0	5420.6	4757.4	4425.9	4280.6	4213.5
7.5°	9706.7	9099.5	7795.6	6432.1	5076.0	4047.8	3149.9	2572.5	2322.8	2283.7	2186.9
10°	9710.5	8874.1	7002.1	5068.6	3403.2	2440.2	1877.6	1579.6	1469.7	1451.1	1419.4
12.5°	9717.9	8607.7	6120.9	3753.4	2268.8	1631.8	1357.9	1259.2	1229.4	1227.5	1227.5
15°	9740.3	8328.3	5206.3	2704.7	1629.9	1292.7	1192.2	1153.1	1141.9	1147.5	1145.6
17.5°	9740.3	7998.6	4308.5	2015.5	1316.9	1162.4	1106.5	1080.4	1076.7	1082.3	1084.1
20°	9669.5	7598.1	3485.2	1568.4	1168.0	1078.5	1028.2	1004.0	994.7	998.4	1000.3
22.5°	9499.9	7106.3	2814.6	1298.3	1069.2	1002.2	948.1	910.9	896.0	897.8	897.8
25°	9235.5	6523.3	2201.7	1123.3	989.1	920.2	856.8	814.0	804.7	802.8	806.5
27.5°	8896.5	5878.8	1752.8	989.1	894.1	828.9	765.5	730.1	722.8	724.7	726.5
30°	8563.0	5210.1	1382.1	875.5	787.9	726.5	678.1	661.3	661.3	666.9	668.8
32.5°	8257.5	4567.5	1093.5	776.7	693.0	637.1	609.1	607.3	616.6	620.3	622.2
35°	7994.9	3973.2	905.3	700.4	618.5	570.0	560.7	568.2	579.3	586.8	588.6
37.5°	7808.6	3442.3	791.6	637.1	560.7	521.6	519.7	534.6	549.5	566.3	570.0
40°	7730.4	2993.4	713.5	581.2	514.1	484.3	478.7	499.2	527.2	551.4	555.1
42.5°	7665.1	2626.5	646.4	527.2	476.9	434.0	432.1	458.2	491.8	516.0	521.6
45°	7609.3	2332.1	584.9	469.4	428.4	372.5	378.1	411.7	437.7	463.8	469.4
47.5°	7493.8	2090.0	517.8	407.9	353.9	318.5	329.7	359.5	380.0	419.1	424.7
50°	7287.0	1892.5	448.9	333.4	288.7	275.6	292.4	312.9	339.0	372.5	376.3
52.5°	7147.3	1743.5	389.3	279.4	238.5	242.2	258.9	266.3	281.2	294.3	290.5
55°	7067.2	1661.6	340.9	242.2	203.1	214.3	218.0	208.7	201.2	188.2	182.6
57.5°	7057.9	1587.1	303.6	210.5	178.9	184.4	171.4	139.7	113.6	98.7	95.0
60°	7043.1	1495.8	273.8	177.0	158.4	150.9	123.0	76.4	54.0	50.3	50.3
62.5°	6881.0	1354.2	251.4	149.0	134.1	113.6	70.8	35.4	29.8	31.7	31.7
65°	6365.0	1156.8	229.2	121.1	106.2	82.0	35.4	20.5	11.2	13.0	13.0
67.5°	5411.3	922.0	204.9	93.2	80.1	52.2	20.5	9.3	0.0	0.0	0.0
70°	3623.1	571.9	173.3	65.2	52.2	31.7	14.9	1.9	0.0	0.0	0.0
72.5°	1389.6	309.2	139.7	39.1	33.5	22.4	9.3	0.0	0.0	0.0	0.0
75°	312.9	203.1	96.9	27.9	24.2	14.9	3.7	0.0	0.0	0.0	0.0
77.5°	119.2	147.2	55.9	18.6	16.8	9.3	0.0	0.0	0.0	0.0	0.0
80°	57.8	87.6	26.1	11.2	9.3	3.7	0.0	0.0	0.0	0.0	0.0
82.5°	29.8	33.5	11.2	5.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	16.8	16.8	5.6	3.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.3	5.6	1.9	1.9	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)