

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: P323654

Luminaire Tested: **GLEON-SA0C-827-U-SL3-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323654  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-23)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GLEON-SA0C-827-U-SL3-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(10) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 43967 lumens  
Efficiency: N/A  
Efficacy: 78.8 lumens/watt  
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

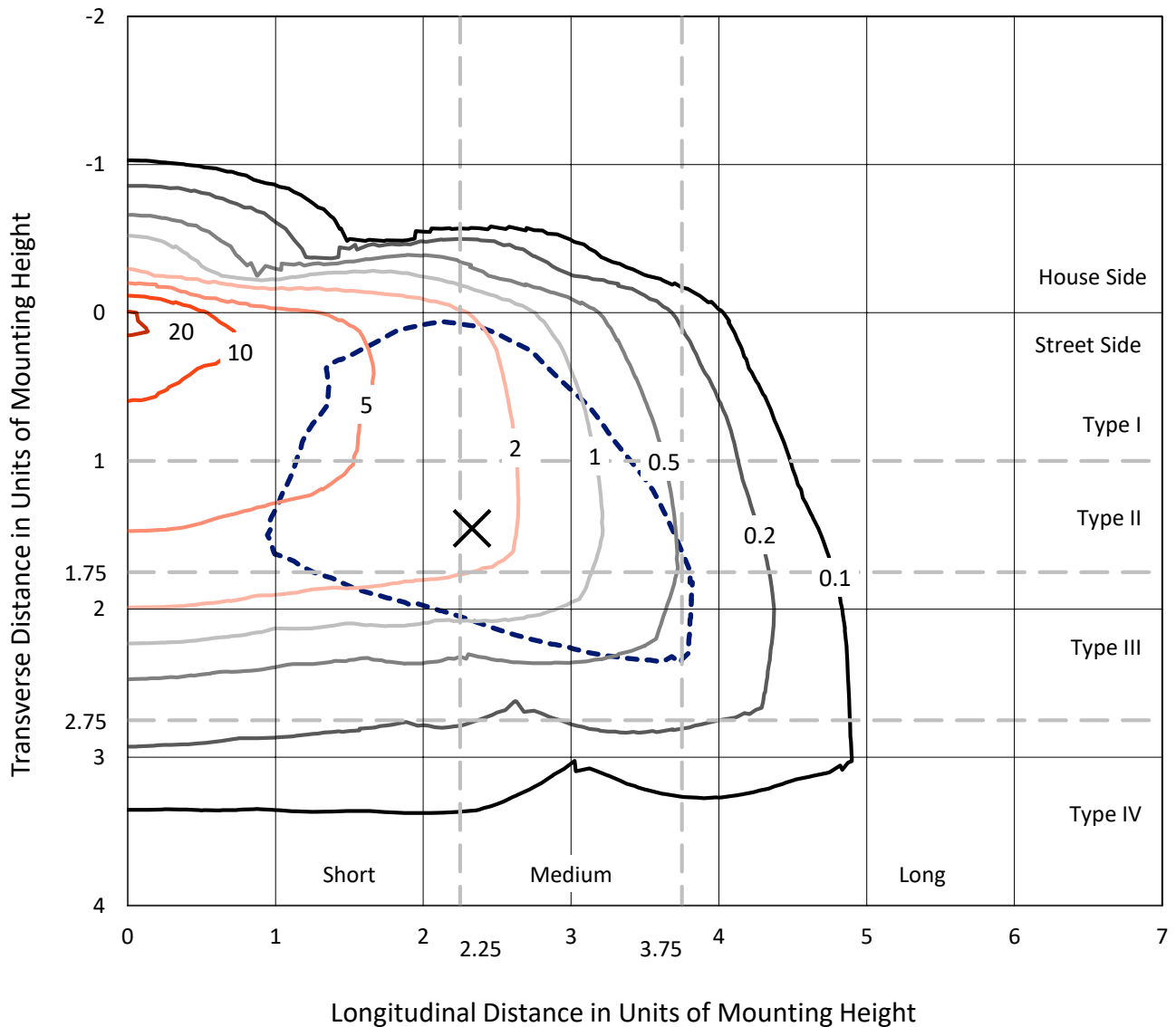
Input Watts (W): 558  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

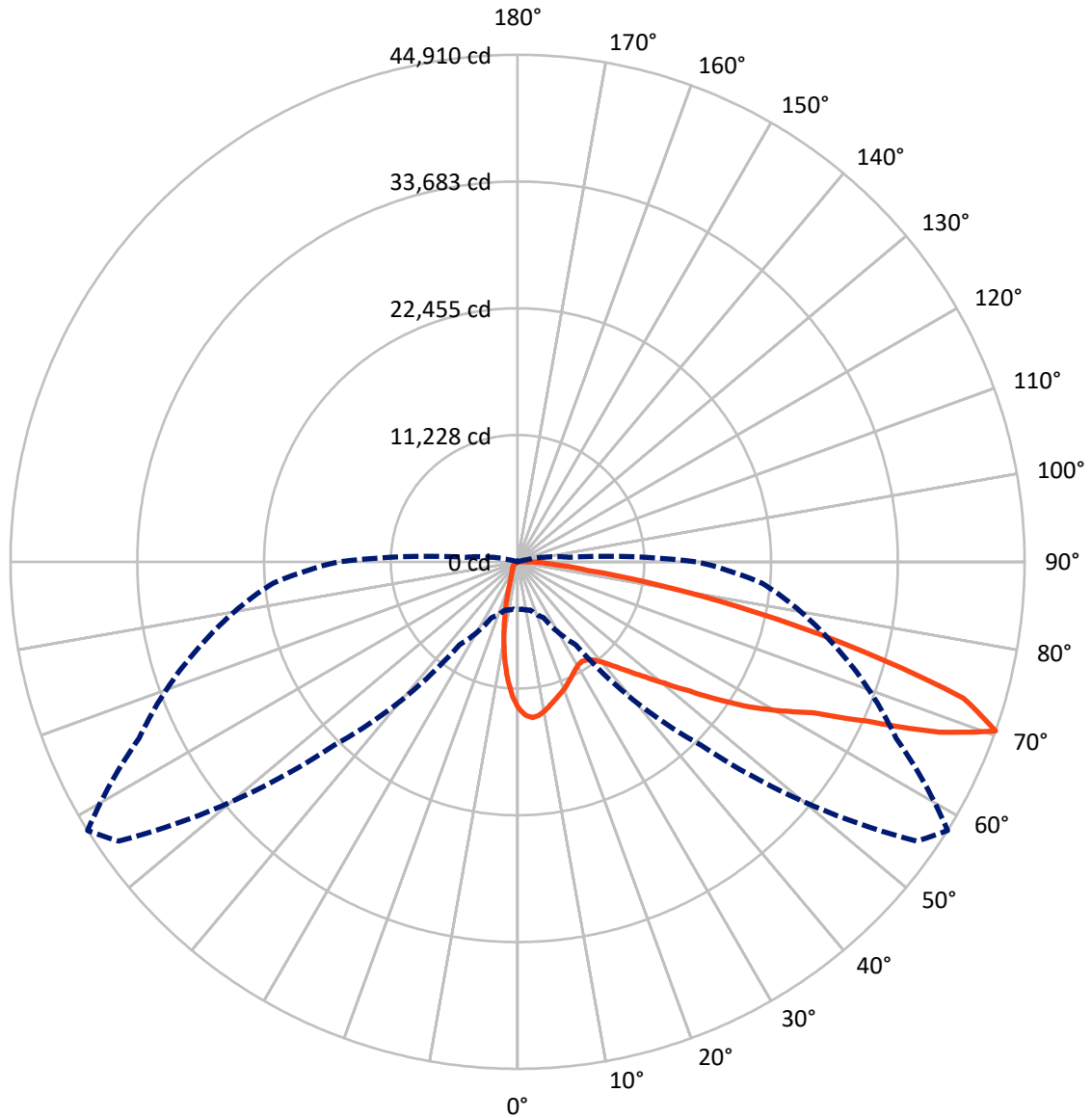
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 21.1 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3762.6	0.0	3762.6
	% Fixture	8.6	0.0	8.6
<b>Street Side</b>	Lumens	40204.4	0.0	40204.4
	% Fixture	91.4	0.0	91.4
<b>Total</b>	Lumens	43967.0	0.0	43967.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	1062.1	2.4
10°-20°	2229.0	5.1
20°-30°	2930.4	6.7
30°-40°	3881.0	8.8
40°-50°	5800.8	13.2
50°-60°	9292.7	21.1
60°-70°	11713.4	26.6
70°-80°	6318.1	14.4
80°-90°	739.6	1.7
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°	43967.0	100.0
0°-180°	43967.0	100.0

**Coefficient of Utilization**

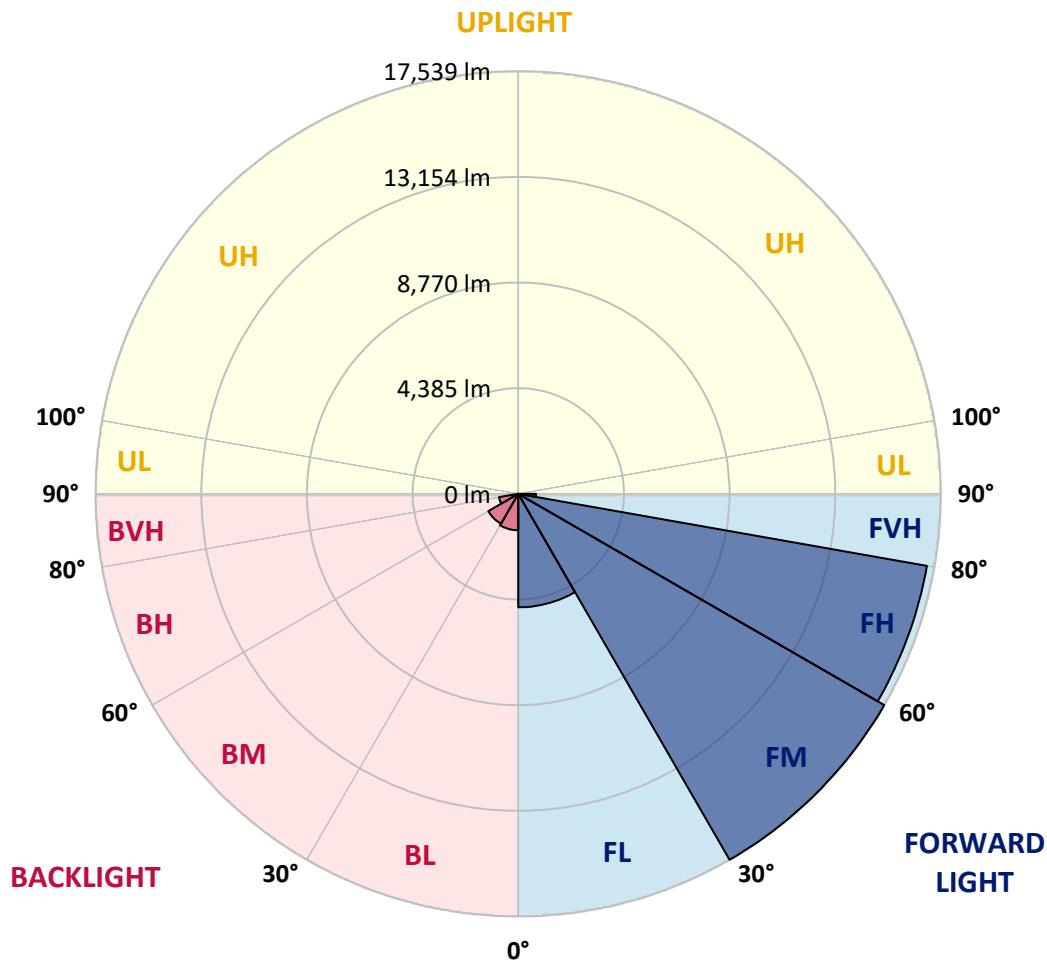


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4709.8	10.7			
FM (30°-60°)	17539.1	39.9			
FH (60°-80°)	17222.3	39.2			G5
FVH (80°-90°)	733.2	1.7			G4/750
BL (0°-30°)	1511.7	3.4	B3/2500		
BM (30°-60°)	1435.4	3.3	B2/2500		
BH (60°-80°)	809.2	1.8	B2/1000		G2/1000
BVH (80°-90°)	6.4	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 Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	12987.6	12987.6	12987.6	12987.6	12987.6	12987.6	12987.6	12987.6	12987.6	12987.6	12987.6
2.5°	14064.5	14029.7	14016.9	13995.0	13910.9	13828.6	13665.9	13620.2	13517.8	13274.7	13016.9
5°	14075.4	14073.6	14112.0	14102.9	14073.6	14035.2	13918.2	13857.9	13684.2	13336.8	12865.2
7.5°	13397.2	13431.9	13517.8	13587.3	13667.7	13771.9	13786.6	13728.1	13585.5	13210.7	12585.4
10°	12486.7	12541.6	12662.2	12799.3	13009.6	13218.0	13404.5	13397.2	13347.8	12978.5	12249.0
12.5°	11574.4	11638.4	11777.4	11980.3	12278.3	12618.3	12951.1	12996.8	13079.1	12770.1	11938.2
15°	10775.5	10830.3	10967.5	11216.1	11585.4	12042.5	12530.6	12614.7	12826.8	12607.4	11678.6
17.5°	10097.2	10132.0	10232.5	10508.6	10936.4	11490.3	12124.7	12289.3	12605.5	12479.4	11453.8
20°	9623.7	9629.2	9695.0	9888.8	10316.6	10936.4	11704.2	11940.1	12371.5	12369.7	11221.6
22.5°	9389.7	9371.4	9384.2	9495.8	9810.2	10408.0	11283.7	11563.5	12161.3	12276.5	10985.7
25°	9345.8	9331.2	9294.6	9309.3	9499.4	9945.5	10859.6	11183.2	11976.6	12219.8	10781.0
27.5°	9483.0	9497.6	9435.4	9369.6	9384.2	9645.7	10483.0	10857.8	11826.7	12219.8	10636.6
30°	9759.0	9766.3	9720.6	9634.7	9519.5	9561.6	10221.6	10596.3	11751.8	12303.9	10545.1
32.5°	10064.3	10104.5	10099.1	10029.6	9865.1	9695.0	10159.4	10501.3	11746.3	12490.4	10536.0
35°	10442.8	10488.5	10565.3	10550.6	10378.8	10099.1	10371.5	10640.2	11854.2	12797.5	10634.7
37.5°	10845.0	10914.4	11079.0	11157.6	11046.1	10729.8	10846.8	11038.8	12143.0	13294.8	10885.2
40°	11234.4	11313.0	11612.8	11921.8	11837.7	11512.3	11567.1	11720.7	12656.7	14009.6	11360.5
42.5°	11616.5	11733.5	12174.1	12682.3	12782.9	12523.3	12552.5	12675.0	13419.1	14993.2	12137.5
45°	12073.5	12205.2	12857.8	13484.9	13753.7	13640.3	13764.6	13845.1	14415.5	16293.1	13185.1
47.5°	12744.5	12896.2	13697.0	14411.8	14883.5	14956.6	15207.1	15260.1	15675.1	17806.8	14550.8
50°	14053.5	14095.5	14819.5	15468.5	16148.6	16587.4	16872.6	16912.8	17199.9	19461.4	16256.5
52.5°	15700.7	15728.1	16137.7	16572.8	17346.1	18241.9	18909.2	18965.9	19026.2	21073.8	17940.3
55°	17337.0	17333.3	17603.9	17859.8	18744.7	20046.4	21494.3	21529.1	21095.8	22604.1	19227.3
57.5°	18358.9	18457.7	18869.0	19198.1	20434.0	22103.1	24112.3	24240.3	23269.5	23737.6	20499.8
60°	18033.5	18081.1	18993.3	20210.9	22538.2	25026.4	26761.4	26794.3	24904.0	24869.2	22108.6
62.5°	15364.3	15389.9	16823.2	19333.4	23604.1	28818.2	29957.1	29421.5	26783.4	26439.7	24033.7
65°	10530.5	10696.9	11894.4	14996.9	21646.1	31196.7	34904.3	34017.6	29648.2	28703.0	25774.2
67.5°	6201.3	6166.6	6758.9	9044.2	15898.2	29617.1	41162.3	40281.1	33555.1	30218.6	25264.1
70°	4236.0	4212.2	4438.9	5475.5	8974.7	22975.2	43131.3	44910.1	37004.9	29198.4	21743.0
72.5°	3023.9	3036.7	3371.2	4254.3	5634.6	13386.2	37090.8	41301.2	35924.4	25454.2	16527.1
75°	2053.1	2087.8	2566.8	3490.1	4939.8	6810.1	26320.8	31395.9	29253.3	18499.7	9499.4
77.5°	1104.2	1142.6	1707.6	2811.8	4466.3	4731.4	16931.1	21607.7	18375.4	8316.6	2753.3
80°	460.7	482.6	798.9	2043.9	3859.4	4155.5	9961.9	13102.8	7830.2	1639.9	614.3
82.5°	199.3	210.2	332.7	1219.4	2884.9	3508.3	5274.4	6303.7	2373.0	360.2	309.0
85°	38.4	40.2	137.1	645.4	1841.0	1980.0	3418.8	3351.1	1065.8	155.4	224.9
87.5°	0.0	0.0	32.9	202.9	541.2	1078.6	2086.0	2060.4	362.0	75.0	84.1
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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CATALOG NUMBER: GLEON-SA0C-827-U-SL3-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12987.6	12987.6	12987.6	12987.6	12987.6	12987.6	12987.6	12987.6	12987.6	12987.6	12987.6
2.5°	12885.3	12759.1	12494.0	12166.8	11916.3	11640.2	11420.9	11143.0	11022.3	11027.8	10962.0
5°	12596.4	12336.8	11749.9	11009.5	10439.1	9850.4	9344.0	8839.4	8541.4	8444.5	8353.1
7.5°	12183.2	11771.9	10835.8	9695.0	8729.7	7786.4	6965.5	6243.4	5786.3	5563.3	5481.0
10°	11717.0	11139.3	9784.6	8281.8	6903.3	5627.2	4563.2	3638.1	3268.8	3018.4	2954.4
12.5°	11307.5	10525.0	8757.2	6832.0	5195.8	3656.4	2641.8	2065.9	1815.4	1716.7	1700.2
15°	10921.8	9951.0	7768.1	5519.4	3597.9	2250.5	1680.1	1484.5	1426.0	1409.6	1409.6
17.5°	10557.9	9404.3	6801.0	4226.8	2380.3	1577.8	1391.3	1347.4	1329.1	1327.3	1329.1
20°	10177.7	8857.7	5850.3	3097.0	1661.8	1336.4	1285.2	1261.5	1256.0	1256.0	1256.0
22.5°	9813.9	8311.1	4925.2	2212.1	1332.8	1219.4	1193.8	1177.4	1171.9	1170.1	1166.4
25°	9464.7	7791.9	4022.1	1563.1	1170.1	1117.0	1095.1	1073.2	1056.7	1047.6	1042.1
27.5°	9177.6	7329.3	3181.1	1254.2	1056.7	1011.0	983.6	950.7	910.5	892.2	884.9
30°	8949.1	6907.0	2451.6	1058.5	950.7	905.0	862.9	806.2	747.7	716.7	714.8
32.5°	8770.0	6492.0	1861.1	936.0	855.6	798.9	738.6	667.3	599.7	564.9	563.1
35°	8682.2	6126.4	1422.4	846.5	771.5	700.2	625.2	546.6	480.8	447.9	444.3
37.5°	8740.7	5817.4	1109.7	771.5	700.2	617.9	530.2	447.9	389.4	360.2	358.3
40°	8954.6	5619.9	901.3	707.5	639.9	539.3	444.3	367.5	318.1	294.3	292.5
42.5°	9409.8	5546.8	769.7	654.5	581.4	466.2	369.3	303.5	257.8	241.3	237.7
45°	10170.4	5654.7	680.1	603.3	521.0	396.7	305.3	248.6	208.4	195.6	193.8
47.5°	11183.2	5938.0	616.1	553.9	466.2	334.6	254.1	201.1	170.0	157.2	155.4
50°	12488.5	6387.8	563.1	504.6	415.0	283.4	210.2	159.1	131.6	122.5	122.5
52.5°	13909.1	6923.5	515.6	458.9	363.8	235.8	170.0	122.5	104.2	93.2	93.2
55°	15082.8	7391.5	464.4	424.1	301.7	195.6	129.8	93.2	76.8	71.3	71.3
57.5°	16254.7	7890.6	405.9	363.8	241.3	159.1	98.7	69.5	56.7	53.0	53.0
60°	17773.9	8501.2	349.2	296.2	190.1	120.7	73.1	49.4	42.0	40.2	40.2
62.5°	19444.9	8859.5	298.0	237.7	148.1	89.6	53.0	32.9	31.1	31.1	29.3
65°	20466.9	8353.1	250.5	190.1	115.2	67.6	34.7	23.8	27.4	25.6	21.9
67.5°	19163.4	6539.5	204.8	148.1	89.6	51.2	21.9	16.5	29.3	23.8	18.3
70°	15867.1	4577.9	159.1	104.2	71.3	43.9	14.6	11.0	31.1	23.8	14.6
72.5°	11874.3	3064.1	126.1	69.5	53.0	38.4	12.8	5.5	27.4	20.1	12.8
75°	6488.3	1234.0	100.6	43.9	32.9	27.4	9.1	3.7	18.3	14.6	9.1
77.5°	1707.6	325.4	73.1	29.3	18.3	11.0	5.5	1.8	9.1	7.3	3.7
80°	435.1	126.1	47.5	20.1	12.8	5.5	0.0	0.0	1.8	0.0	0.0
82.5°	232.2	53.0	29.3	14.6	7.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	175.5	34.7	16.5	9.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	67.6	11.0	5.5	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)