

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: P323974

Luminaire Tested: **GLEON-SA0C-827-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323974
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
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-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 41769 lumens
Efficiency: N/A
Efficacy: 74.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

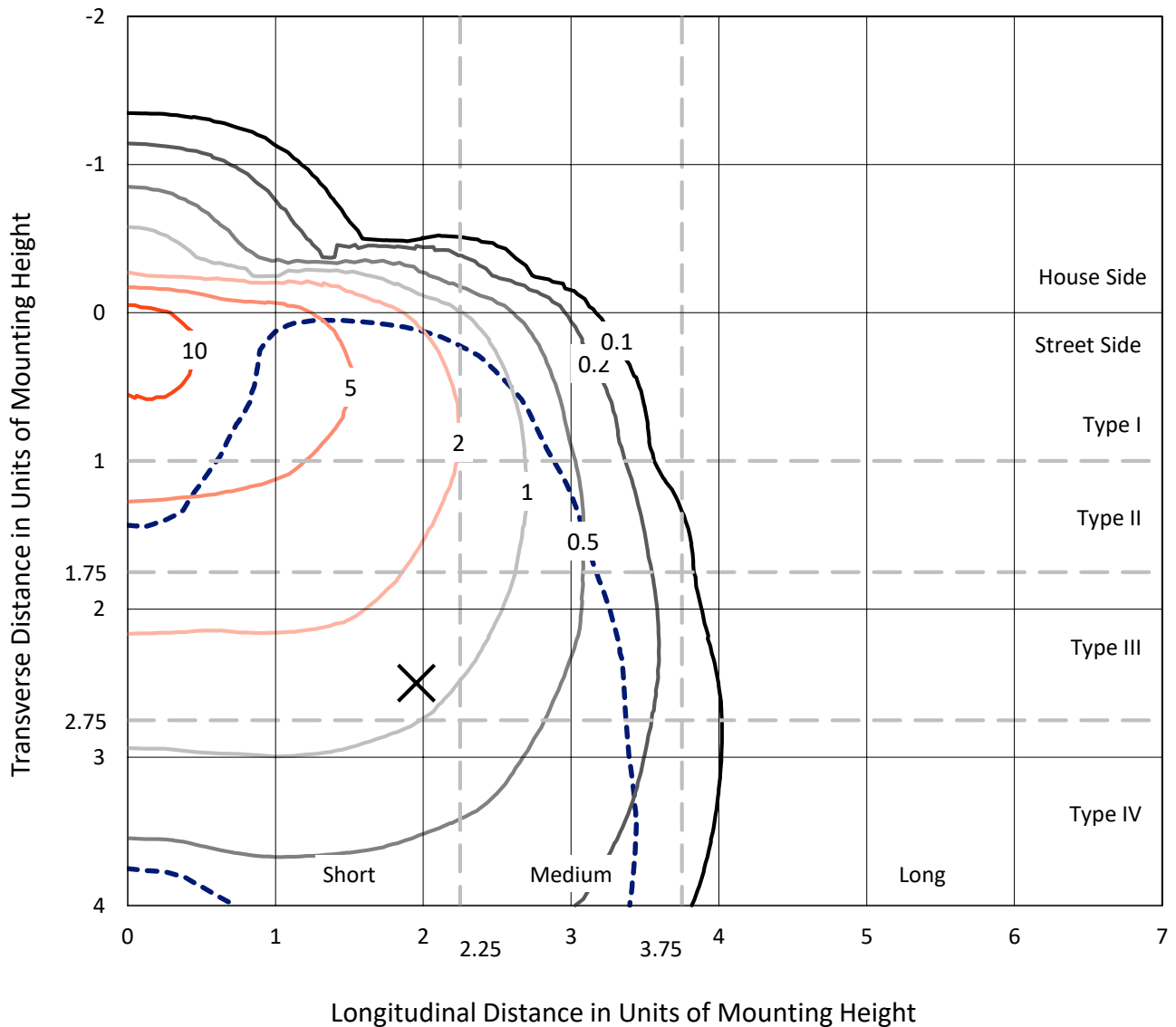
Input Watts (W): 558
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

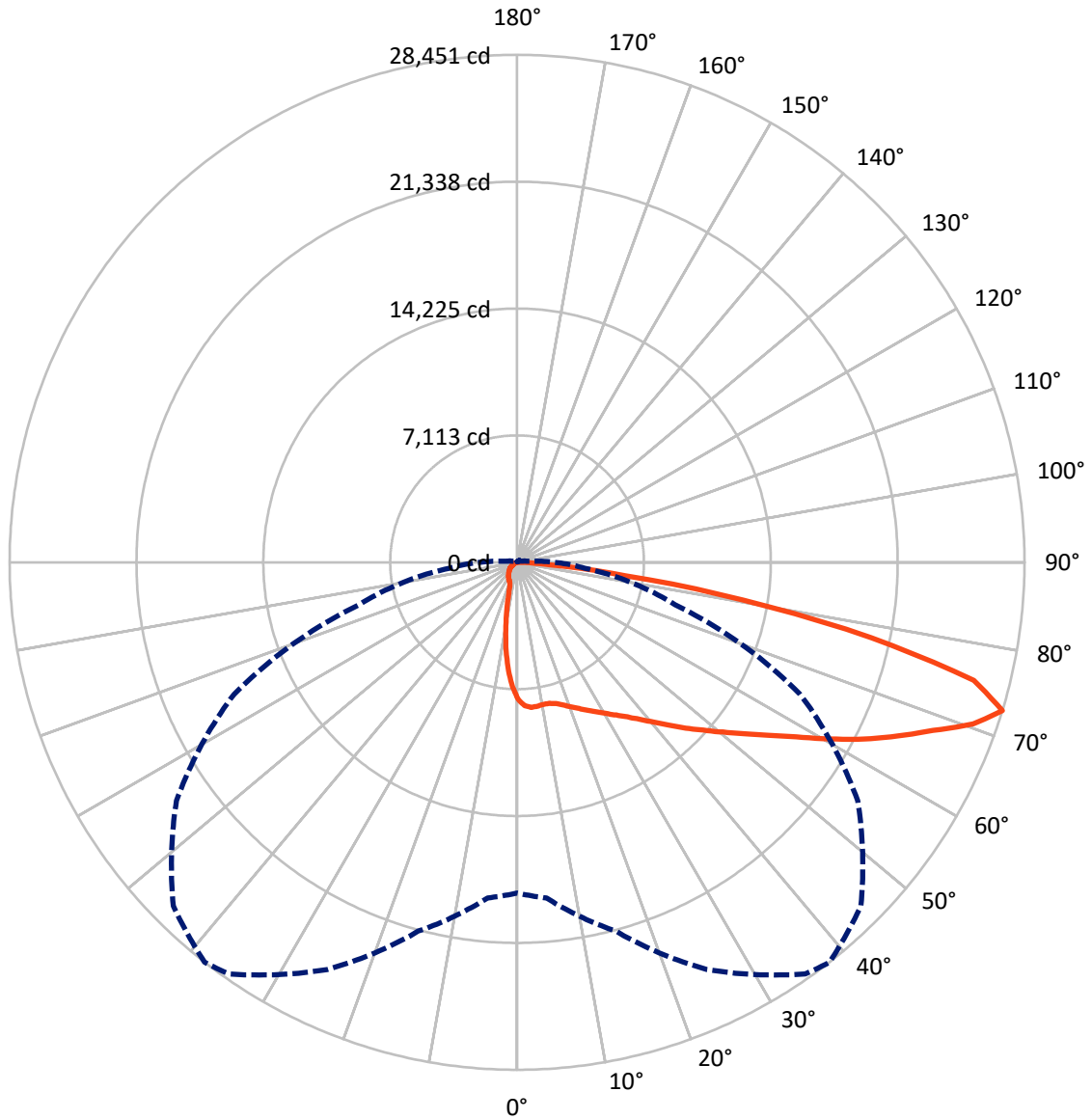
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3515.0	0.0	3515.0
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	38254.0	0.0	38254.0
	% Fixture	91.6	0.0	91.6
Total	Lumens	41769.0	0.0	41769.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	654.6	1.6
10°-20°	1600.6	3.8
20°-30°	2545.7	6.1
30°-40°	3827.2	9.2
40°-50°	5838.7	14.0
50°-60°	8252.1	19.8
60°-70°	10350.9	24.8
70°-80°	7739.5	18.5
80°-90°	959.7	2.3
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°	41769.0	100.0
0°-180°	41769.0	100.0

Coefficient of Utilization



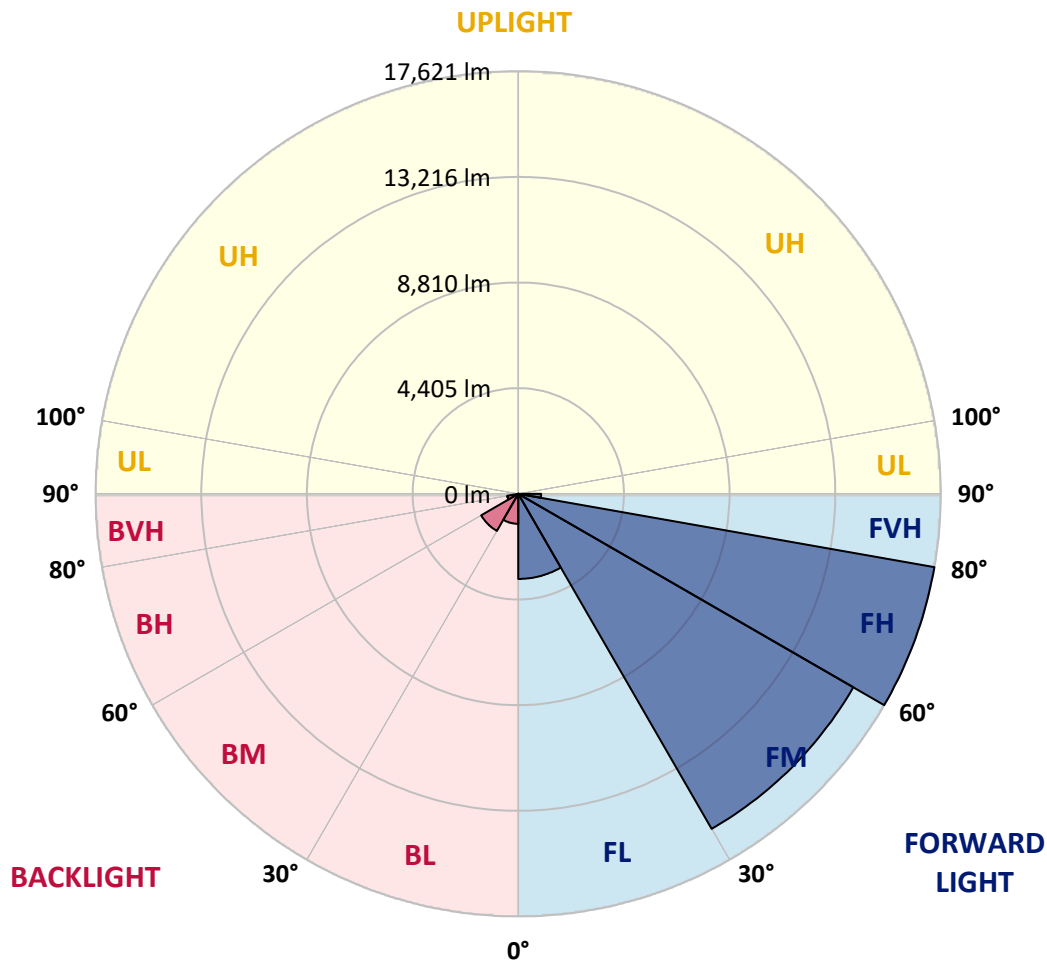
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3549.4	8.5			
FM (30°-60°)	16133.0	38.6			
FH (60°-80°)	17620.9	42.2			G5
FVH (80°-90°)	950.7	2.3			G5
BL (0°-30°)	1251.6	3.0	B3/2500		
BM (30°-60°)	1785.0	4.3	B2/2500		
BH (60°-80°)	469.5	1.1	B1/500		G1/500
BVH (80°-90°)	8.9	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°	35°	38°	45°	55°	65°	75°	85°
0°	7681.2	7681.2	7681.2	7681.2	7681.2	7681.2	7681.2	7681.2	7681.2	7681.2	7681.2
2.5°	8153.0	8154.8	8135.7	8104.4	8064.5	8043.7	8009.0	7953.5	7894.5	7788.7	7674.2
5°	8319.5	8319.5	8295.3	8253.6	8189.4	8170.4	8104.4	8016.0	7894.5	7722.8	7530.3
7.5°	8302.2	8305.7	8272.7	8229.3	8165.2	8147.8	8068.0	7969.1	7818.2	7610.1	7363.7
10°	8212.0	8220.7	8194.6	8173.8	8114.9	8095.8	8021.2	7922.3	7771.4	7549.3	7266.6
12.5°	8120.1	8128.7	8137.4	8156.5	8120.1	8113.1	8054.1	7970.9	7826.9	7596.2	7277.0
15°	8061.1	8078.4	8140.9	8215.5	8224.1	8217.2	8179.0	8101.0	7955.3	7715.9	7351.6
17.5°	8061.1	8088.8	8218.9	8361.2	8411.5	8416.7	8383.7	8274.4	8101.0	7844.2	7421.0
20°	8128.7	8166.9	8369.9	8571.1	8654.3	8654.3	8590.2	8437.5	8234.5	7960.5	7467.8
22.5°	8302.2	8352.5	8607.5	8840.0	8928.4	8909.3	8822.6	8600.6	8373.3	8092.3	7526.8
25°	8643.9	8682.1	8947.5	9181.7	9235.5	9192.1	9082.8	8798.3	8550.3	8271.0	7634.3
27.5°	9084.5	9089.7	9363.8	9561.6	9528.6	9499.1	9362.1	9046.4	8805.3	8526.0	7820.0
30°	9568.5	9568.5	9809.6	9960.6	9859.9	9835.7	9698.6	9346.5	9131.4	8872.9	8083.6
32.5°	10036.9	10057.7	10253.7	10349.1	10236.4	10212.1	10078.5	9726.4	9565.0	9402.0	8494.7
35°	10489.6	10505.2	10690.9	10742.9	10635.3	10642.3	10546.9	10248.5	10187.8	10167.0	9114.0
37.5°	10928.5	10932.0	11121.1	11154.0	11100.2	11159.2	11167.9	10904.2	11017.0	11185.2	9986.6
40°	11329.2	11332.7	11520.0	11605.0	11697.0	11773.3	11841.0	11700.4	12073.4	12463.7	11025.7
42.5°	11650.1	11686.6	11924.2	12085.5	12328.4	12474.1	12658.0	12651.1	13331.0	13917.4	12281.6
45°	11932.9	11995.3	12326.7	12609.4	13025.7	13258.2	13546.1	13771.7	14746.5	15535.8	13553.1
47.5°	12305.8	12364.8	12743.0	13206.2	13761.2	14066.6	14543.6	15031.0	16302.6	17124.8	14795.1
50°	12831.5	12805.4	13178.4	13842.8	14555.7	14956.4	15636.4	16366.7	17846.4	18509.1	15525.4
52.5°	13391.8	13381.4	13657.2	14534.9	15492.5	15960.8	16859.4	17747.6	19322.6	19463.2	15860.2
55°	14085.6	14011.0	14243.5	15324.2	16604.4	17107.5	18165.6	19114.5	20498.8	20000.9	16028.5
57.5°	14812.5	14689.3	14911.3	16203.7	17858.6	18453.6	19612.3	20446.7	21281.1	20368.7	16026.7
60°	15563.6	15417.9	15681.5	17303.5	19416.3	20105.0	21180.5	21347.0	22011.4	20554.3	15908.8
62.5°	16191.5	16104.8	16496.8	18479.6	21156.2	21832.7	22365.3	22165.8	22627.2	20698.3	15633.0
65°	16855.9	16861.1	17494.3	19851.7	23005.4	23461.6	23506.7	23227.4	23142.4	20668.8	14699.7
67.5°	17754.5	17837.8	18894.2	21714.8	24804.2	25156.4	25152.9	24377.5	23518.8	19496.1	12630.2
70°	18705.1	18901.1	20507.4	23846.7	26767.9	27125.3	26941.4	25109.6	22145.0	15764.8	8938.8
72.5°	18545.5	18885.5	21404.3	25191.1	28178.2	28450.6	27255.4	23310.7	17503.0	9162.6	3805.9
75°	14307.7	14701.4	19626.2	23858.8	26698.5	26453.9	23418.2	18139.6	9565.0	2556.9	856.9
77.5°	7558.0	7767.9	12965.0	18176.0	20817.9	20306.2	16496.8	10062.9	2916.0	633.2	385.1
80°	3958.5	4007.1	5649.9	10312.7	12848.8	12852.3	9776.7	4420.0	1202.1	324.4	258.5
82.5°	2119.8	2161.4	2985.4	4765.2	6732.3	6102.6	3743.4	2432.0	699.1	183.9	248.1
85°	510.0	518.7	1693.1	2177.0	2647.1	1890.8	1111.9	2041.7	189.1	107.6	201.2
87.5°	196.0	199.5	628.0	941.9	674.8	437.1	520.4	761.5	24.3	41.6	31.2
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°	7681.2	7681.2	7681.2	7681.2	7681.2	7681.2	7681.2	7681.2	7681.2	7681.2	7681.2
2.5°	7604.9	7559.8	7448.7	7308.2	7183.3	7093.1	6957.8	6869.3	6810.4	6808.6	6786.1
5°	7412.3	7320.4	7081.0	6796.5	6538.0	6305.6	6031.5	5814.7	5653.3	5627.3	5571.8
7.5°	7205.9	7055.0	6687.2	6243.1	5809.5	5368.8	4857.1	4539.7	4267.3	4137.2	4123.3
10°	7079.2	6867.6	6345.5	5703.6	5023.6	4307.2	3637.6	3174.5	2839.7	2744.3	2673.1
12.5°	7053.2	6773.9	6081.8	5197.1	4225.7	3278.6	2537.8	2045.2	1778.1	1693.1	1670.5
15°	7079.2	6730.6	5859.8	4695.8	3417.3	2326.2	1703.5	1417.2	1316.6	1292.3	1290.6
17.5°	7094.9	6678.5	5608.2	4139.0	2633.3	1661.8	1304.5	1221.2	1205.6	1203.9	1207.3
20°	7093.1	6598.7	5308.1	3517.9	1958.5	1306.2	1179.6	1162.2	1158.8	1160.5	1158.8
22.5°	7081.0	6505.1	4978.5	2877.8	1479.7	1167.4	1125.8	1115.4	1113.7	1113.7	1113.7
25°	7103.5	6430.5	4616.0	2265.5	1219.5	1103.3	1077.2	1068.6	1066.8	1066.8	1063.4
27.5°	7185.1	6388.8	4218.8	1743.4	1101.5	1046.0	1025.2	1023.5	1018.3	1016.5	1020.0
30°	7316.9	6388.8	3783.3	1356.5	1030.4	987.0	971.4	968.0	966.2	964.5	966.2
32.5°	7549.3	6437.4	3308.0	1127.5	962.7	921.1	910.7	915.9	910.7	910.7	910.7
35°	7969.1	6583.1	2810.2	983.6	891.6	856.9	846.5	853.5	850.0	850.0	848.3
37.5°	8581.5	6853.7	2308.9	896.8	829.2	792.8	778.9	789.3	785.8	785.8	784.1
40°	9327.4	7247.5	1831.8	830.9	768.5	730.3	718.2	723.4	714.7	714.7	718.2
42.5°	10248.5	7747.1	1415.5	766.7	707.8	671.3	664.4	659.2	643.6	634.9	636.6
45°	11272.0	8267.5	1103.3	704.3	650.5	621.0	610.6	596.7	570.7	553.4	555.1
47.5°	12186.2	8668.2	896.8	643.6	598.5	575.9	560.3	534.3	496.1	475.3	477.0
50°	12666.7	8728.9	763.3	582.9	549.9	527.3	504.8	464.9	419.8	397.2	395.5
52.5°	12789.8	8444.4	664.4	527.3	501.3	475.3	445.8	392.0	341.7	317.4	314.0
55°	12834.9	8010.8	575.9	475.3	449.3	419.8	381.6	320.9	274.1	249.8	248.1
57.5°	12685.7	7363.7	506.5	428.5	397.2	360.8	314.0	256.7	211.6	192.5	192.5
60°	12354.4	6487.7	452.8	378.2	343.5	301.8	253.3	199.5	157.9	142.2	142.2
62.5°	11693.5	5353.2	402.4	326.1	293.2	249.8	204.7	150.9	111.0	102.3	104.1
65°	10446.3	4060.9	352.1	279.3	249.8	206.4	159.6	107.6	74.6	74.6	78.1
67.5°	8519.0	2820.6	300.1	237.7	215.1	168.3	121.4	74.6	52.0	59.0	65.9
70°	5639.5	1582.0	256.7	196.0	183.9	133.6	90.2	50.3	41.6	55.5	67.7
72.5°	2128.5	615.8	215.1	157.9	159.6	102.3	64.2	38.2	38.2	60.7	79.8
75°	593.3	301.8	154.4	116.2	124.9	74.6	46.8	33.0	36.4	69.4	93.7
77.5°	348.7	222.0	100.6	67.7	85.0	52.0	31.2	26.0	31.2	59.0	90.2
80°	281.0	118.0	59.0	34.7	46.8	29.5	20.8	15.6	8.7	22.6	46.8
82.5°	281.0	71.1	27.8	24.3	24.3	15.6	10.4	6.9	1.7	0.0	12.1
85°	189.1	29.5	17.3	15.6	12.1	5.2	3.5	1.7	0.0	0.0	0.0
87.5°	31.2	12.1	6.9	3.5	1.7	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)