

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: P322690

Luminaire Tested: **GLEON-SA6C-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322690
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-SA6C-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 2700K, 1050mA 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: 22084 lumens
Efficiency: N/A
Efficacy: 66.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

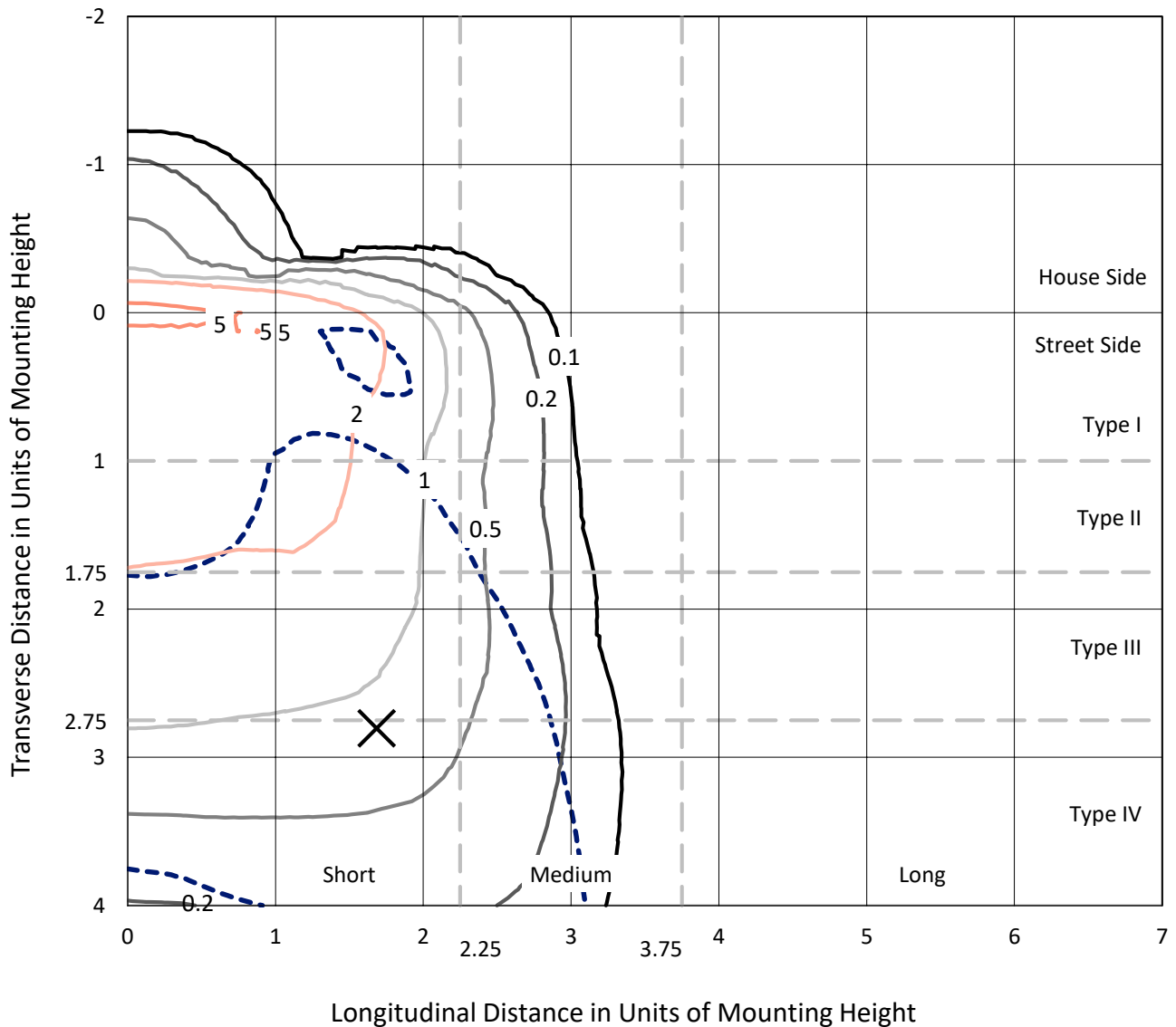
Input Watts (W): 333
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

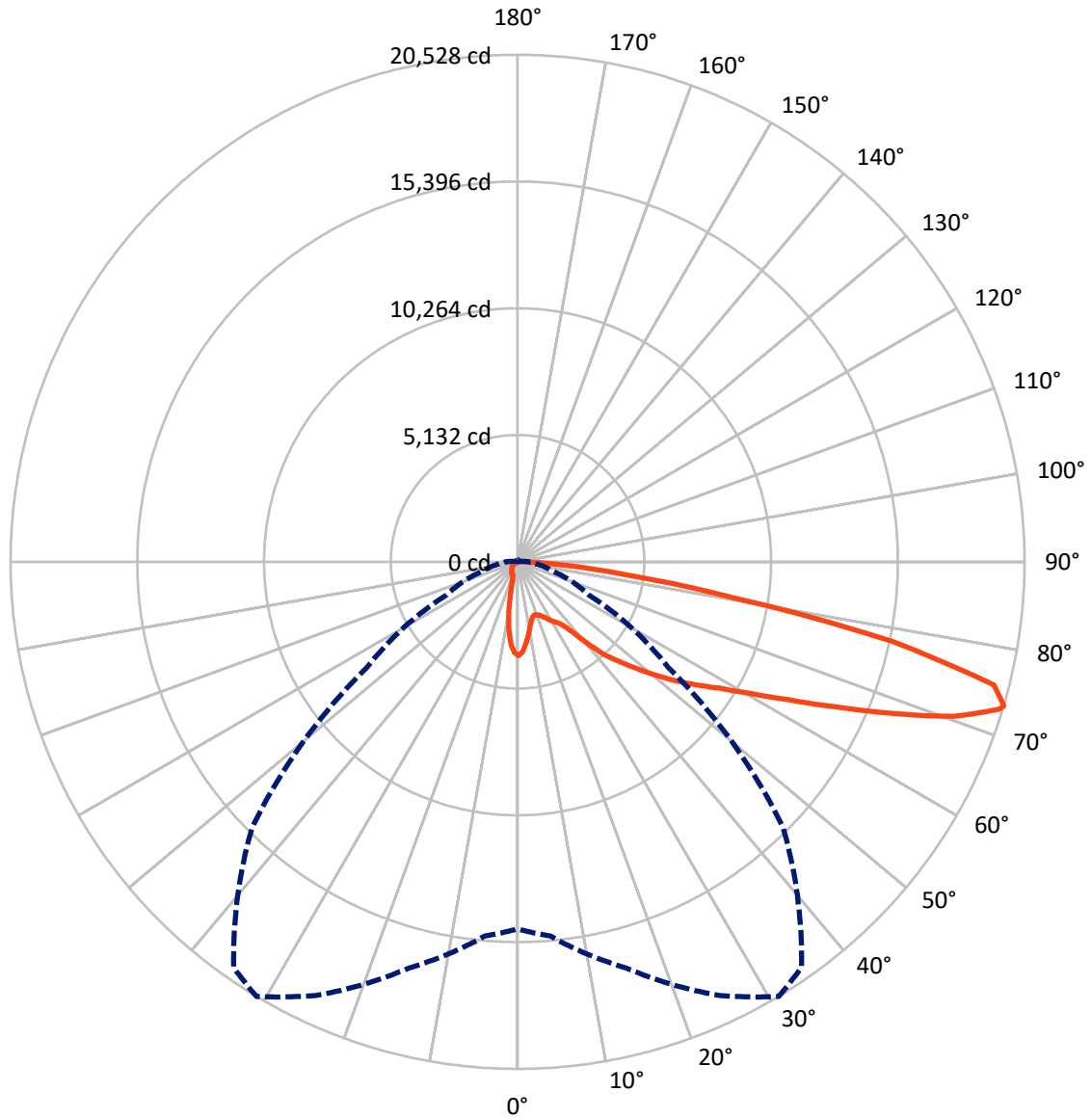
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.1 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
House Side	Lumens	2013.0	0.0	2013.0
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	20071.0	0.0	20071.0
	% Fixture	90.9	0.0	90.9
Total	Lumens	22084.0	0.0	22084.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.0	1.4
10°-20°	684.0	3.1
20°-30°	1024.9	4.6
30°-40°	1630.6	7.4
40°-50°	2911.8	13.2
50°-60°	4518.3	20.5
60°-70°	6006.5	27.2
70°-80°	4518.1	20.5
80°-90°	474.8	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°	22084.0	100.0
0°-180°	22084.0	100.0

Coefficient of Utilization



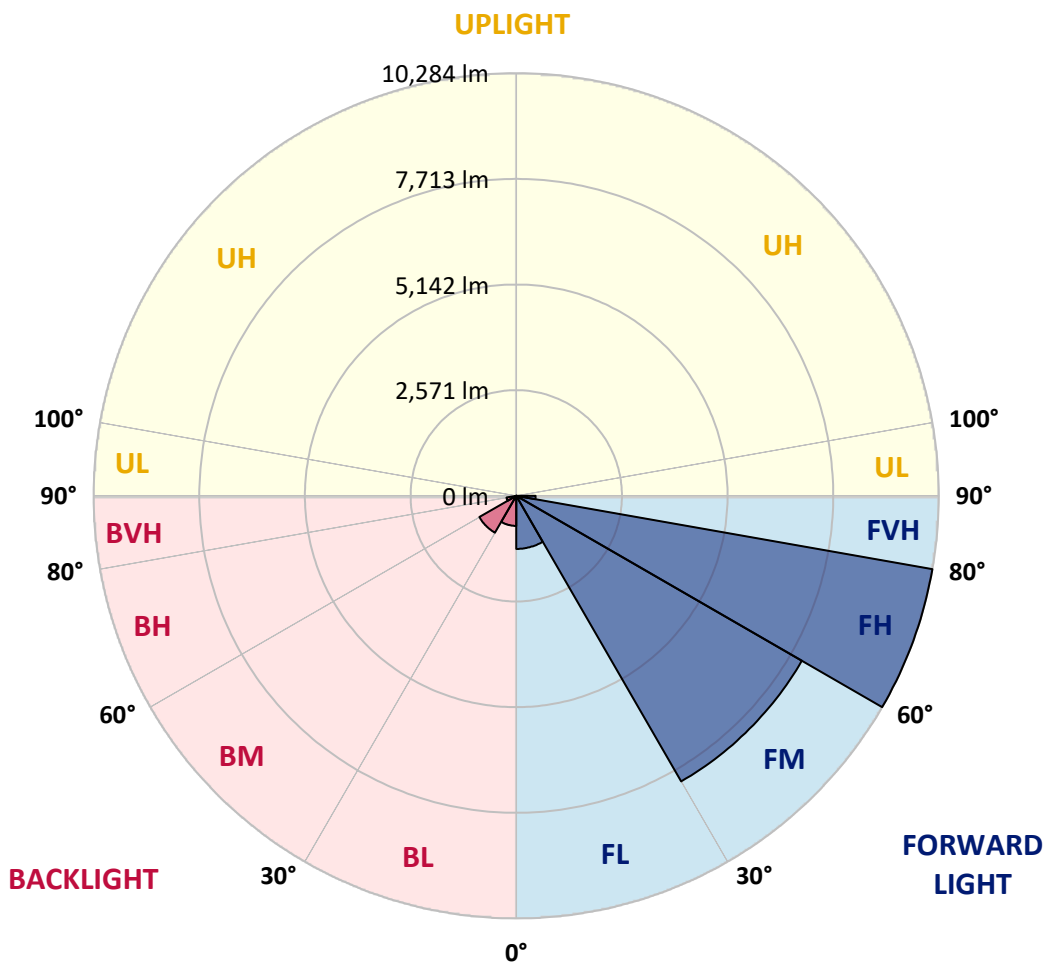
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1291.9	5.9			
FM (30°-60°)	8024.6	36.3			
FH (60°-80°)	10283.7	46.6			G4/12000
FVH (80°-90°)	470.8	2.1			G3/500
BL (0°-30°)	732.0	3.3	B2/1000		
BM (30°-60°)	1036.2	4.7	B2/2500		
BH (60°-80°)	240.9	1.1	B1/500		G1/500
BVH (80°-90°)	4.0	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	3799.6	3799.6	3799.6	3799.6	3799.6	3799.6	3799.6	3799.6	3799.6	3799.6	3799.6
2.5°	3600.8	3615.9	3632.1	3635.3	3662.4	3663.4	3702.3	3731.5	3760.7	3788.8	3798.5
5°	3231.2	3256.0	3285.2	3314.4	3371.7	3394.4	3489.4	3586.7	3679.6	3768.3	3811.5
7.5°	2836.7	2864.8	2905.9	2978.3	3042.1	3086.4	3236.6	3409.5	3582.4	3745.6	3839.6
10°	2476.9	2502.8	2546.0	2622.8	2721.1	2781.6	2983.7	3223.6	3477.6	3725.0	3881.7
12.5°	2247.8	2261.8	2285.6	2367.7	2456.3	2524.4	2762.2	3059.3	3391.1	3724.0	3949.8
15°	2205.6	2209.9	2190.5	2227.2	2296.4	2362.3	2603.3	2926.4	3325.2	3741.2	4038.4
17.5°	2272.6	2270.5	2205.6	2201.3	2256.4	2310.4	2525.5	2834.6	3278.7	3781.2	4153.0
20°	2374.2	2366.6	2254.3	2233.7	2292.1	2342.9	2520.1	2800.0	3261.4	3848.2	4292.4
22.5°	2509.3	2496.3	2320.2	2298.6	2361.2	2414.2	2587.1	2833.5	3276.6	3937.9	4454.5
25°	2676.8	2657.3	2433.6	2409.9	2473.6	2526.6	2707.1	2929.7	3321.9	4047.1	4659.8
27.5°	2865.9	2837.8	2615.2	2553.6	2626.0	2681.1	2867.0	3076.6	3393.3	4162.7	4911.6
30°	3044.2	3007.5	2806.5	2704.9	2793.5	2855.1	3039.9	3251.7	3507.8	4341.0	5256.3
32.5°	3223.6	3182.5	2977.2	2856.2	2936.2	3003.2	3218.2	3492.7	3722.9	4613.3	5714.5
35°	3636.4	3593.2	3341.4	3141.5	3140.4	3178.2	3467.8	3822.3	4007.1	4992.6	6261.3
37.5°	4331.3	4306.4	4066.5	3687.2	3585.6	3543.5	3808.2	4215.7	4415.6	5514.6	6878.4
40°	5092.1	5070.5	4801.4	4457.7	4303.2	4199.4	4296.7	4763.5	4992.6	6152.2	7508.4
42.5°	5951.2	5848.5	5368.7	5266.1	5127.7	5048.8	4961.3	5439.0	5701.6	6846.0	8133.0
45°	6731.4	6558.5	5936.1	5780.4	5749.1	5768.6	5817.2	6346.7	6499.1	7670.5	8755.5
47.5°	7196.1	7059.9	6582.3	6433.2	6424.5	6553.1	6920.5	7372.3	7293.4	8389.2	9303.4
50°	7638.1	7514.9	7118.3	7155.0	7195.0	7370.1	8173.0	8427.0	8018.5	9040.8	9805.9
52.5°	7995.8	7807.8	7600.3	7806.7	8003.4	8285.4	9465.5	9373.6	8532.9	9559.5	10236.0
55°	8202.2	8116.8	8217.3	8424.8	8794.4	9252.6	10685.6	10161.4	8909.0	10032.8	10522.4
57.5°	8958.7	8791.2	8991.1	9170.5	9652.4	10293.3	11730.6	10748.2	9180.2	10325.7	10588.3
60°	9874.0	9738.9	9856.7	10155.0	10805.5	11558.7	12707.5	11227.0	9321.8	10513.7	10417.6
62.5°	11330.7	11152.4	11078.9	11412.8	12275.2	13097.6	13448.8	11558.7	9290.4	10430.5	9831.8
65°	13282.4	13097.6	12769.1	13071.7	14168.5	14748.8	14277.7	11629.0	9074.3	9757.3	8351.3
67.5°	15281.6	15147.6	14866.6	15376.7	16366.6	16553.5	15154.1	11458.2	8378.4	7911.5	5900.4
70°	16602.2	16544.9	16727.5	17855.7	18738.6	18684.6	15958.1	10540.7	6530.4	4865.1	2918.9
72.5°	15650.1	15924.6	17273.3	19318.9	20397.4	19956.5	15545.3	8094.1	3732.6	1871.7	844.0
73°	14861.2	15212.4	17027.9	19374.1	20528.2	20045.1	15198.4	7429.5	3181.5	1477.3	639.8
75°	10338.7	10769.8	14097.2	18043.8	19916.5	19098.5	12668.6	4547.4	1474.0	654.9	258.3
77.5°	5019.7	5338.5	7762.4	13037.1	15489.1	14921.7	7886.7	1694.5	665.7	409.6	118.9
80°	1873.9	2083.5	3369.5	6635.2	8951.1	9185.6	3468.9	640.8	443.1	329.6	60.5
82.5°	490.6	546.8	1242.8	2958.8	4587.4	4801.4	1093.6	323.1	324.2	271.2	36.7
85°	156.7	179.4	388.0	1328.1	2161.3	1897.6	285.3	156.7	235.6	202.1	20.5
87.5°	19.5	24.9	123.2	312.3	476.6	264.8	44.3	46.5	100.5	112.4	11.9
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°	3799.6	3799.6	3799.6	3799.6	3799.6	3799.6	3799.6	3799.6	3799.6	3799.6	3799.6
2.5°	3808.2	3802.8	3803.9	3775.8	3757.5	3720.7	3682.9	3665.6	3647.2	3639.7	3647.2
5°	3827.7	3818.0	3789.9	3703.4	3611.6	3492.7	3381.4	3297.1	3191.2	3162.0	3192.3
7.5°	3858.0	3838.5	3756.4	3580.2	3376.0	3149.0	2894.0	2708.1	2555.8	2457.4	2493.1
10°	3902.3	3865.5	3700.2	3400.8	3035.6	2633.6	2271.5	1989.5	1789.6	1707.4	1704.2
12.5°	3976.8	3907.7	3631.0	3167.4	2619.5	2083.5	1609.1	1303.3	1141.2	1036.4	1034.2
15°	4059.0	3957.4	3543.5	2887.5	2135.4	1492.4	1036.4	804.0	699.2	665.7	661.4
17.5°	4159.5	4014.6	3430.0	2542.8	1628.6	988.8	676.5	609.5	605.2	601.9	601.9
20°	4285.9	4082.7	3284.1	2148.4	1155.2	660.3	574.9	579.2	581.4	577.1	578.2
22.5°	4432.9	4151.9	3110.1	1724.7	781.3	552.2	550.1	555.5	557.6	555.5	556.5
25°	4603.6	4231.9	2898.3	1280.6	564.1	524.1	529.5	537.1	542.5	542.5	542.5
27.5°	4815.4	4329.1	2643.3	893.7	487.4	494.9	510.1	524.1	531.7	533.8	533.8
30°	5091.0	4450.2	2337.5	612.7	443.1	456.0	484.1	511.2	525.2	527.4	528.4
32.5°	5439.0	4586.3	1983.0	452.8	405.2	415.0	445.2	490.6	517.6	522.0	522.0
35°	5837.7	4744.1	1601.5	394.4	378.2	381.5	405.2	457.1	504.7	516.6	517.6
37.5°	6274.3	4899.7	1217.9	368.5	355.5	355.5	372.8	417.1	473.3	510.1	514.4
40°	6681.7	4993.7	853.7	348.0	335.0	335.0	350.1	382.6	435.5	490.6	502.5
42.5°	7057.8	5026.1	594.4	328.5	315.6	318.8	331.8	357.7	397.7	452.8	463.6
45°	7444.7	5020.7	433.3	305.8	296.1	305.8	315.6	335.0	364.2	395.5	397.7
47.5°	7736.4	4975.4	343.6	284.2	277.7	290.7	299.3	312.3	328.5	326.4	326.4
50°	8009.8	4865.1	276.6	255.0	259.4	274.5	278.8	283.1	284.2	263.7	261.5
52.5°	8217.3	4693.3	221.5	223.7	241.0	256.1	251.8	245.3	234.5	209.6	205.3
55°	8286.5	4362.6	174.0	184.8	214.0	233.4	217.2	203.2	182.6	162.1	157.8
57.5°	8161.1	3935.8	141.6	143.7	180.5	196.7	178.3	162.1	139.4	122.1	118.9
60°	7895.3	3461.4	116.7	108.1	139.4	153.5	141.6	125.4	104.8	91.9	90.8
62.5°	7367.9	2955.6	96.2	84.3	105.9	117.8	110.2	98.3	81.0	72.4	71.3
65°	6259.2	2364.5	77.8	68.1	82.1	91.9	85.4	76.7	63.8	57.3	56.2
67.5°	4369.1	1598.3	63.8	56.2	64.8	72.4	67.0	62.7	50.8	49.7	50.8
70°	2107.3	770.5	53.0	45.4	50.8	56.2	54.0	50.8	48.6	56.2	64.8
72.5°	604.1	258.3	42.1	37.8	41.1	44.3	46.5	45.4	53.0	68.1	78.9
73°	464.7	208.6	40.0	35.7	38.9	43.2	45.4	44.3	54.0	69.2	78.9
75°	198.8	100.5	30.3	29.2	32.4	37.8	40.0	40.0	54.0	70.2	75.6
77.5°	89.7	54.0	19.5	22.7	28.1	30.3	33.5	33.5	43.2	54.0	54.0
80°	50.8	29.2	15.1	17.3	20.5	20.5	20.5	18.4	19.5	21.6	23.8
82.5°	32.4	19.5	11.9	14.0	13.0	10.8	8.6	8.6	7.6	8.6	10.8
85°	18.4	10.8	10.8	8.6	5.4	4.3	5.4	4.3	1.1	0.0	1.1
87.5°	10.8	6.5	3.2	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)