

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: P322681

Luminaire Tested: **GLEON-SA7B-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322681
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-SA7B-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 2700K, 800mA 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: 21102 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

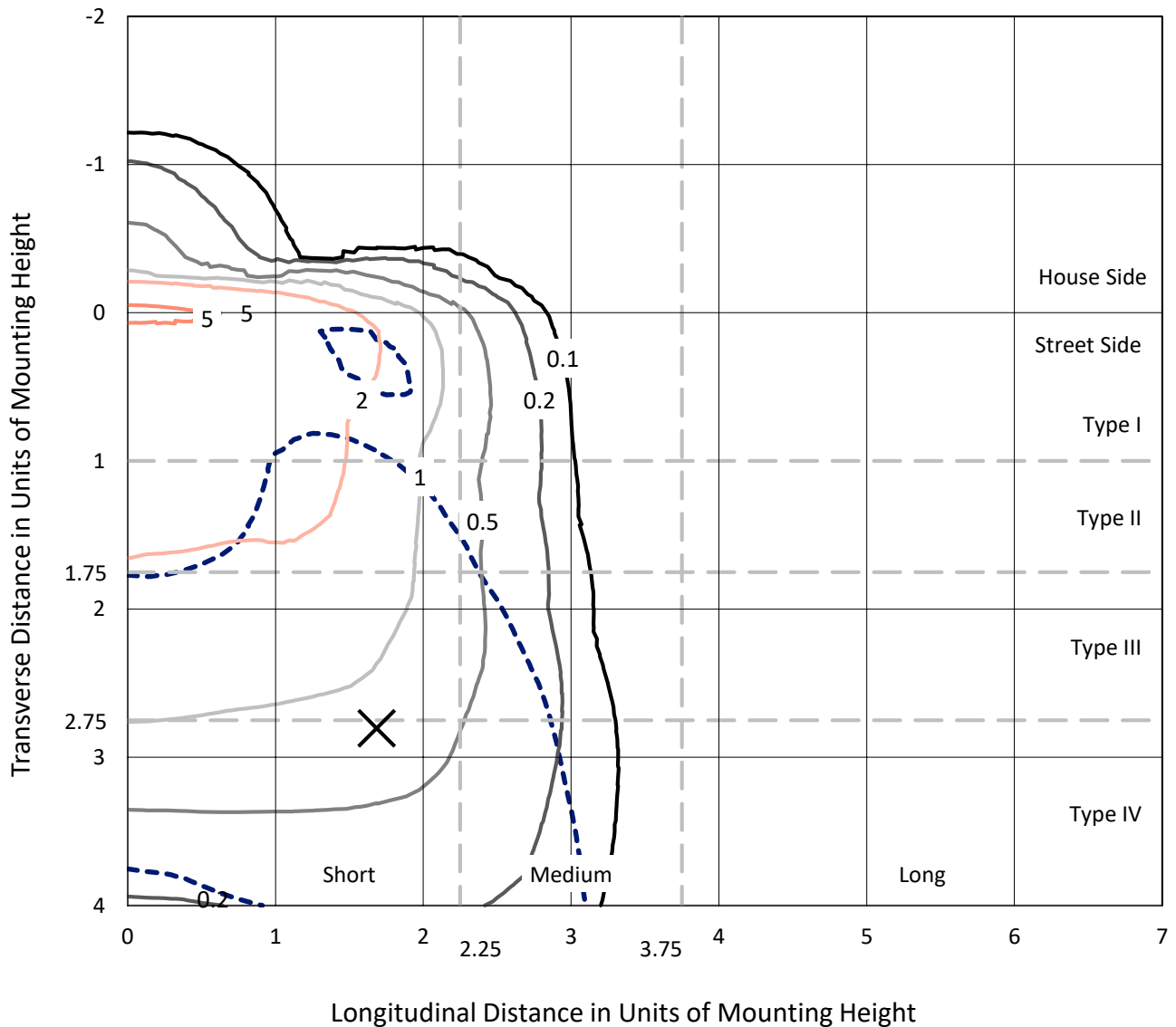
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

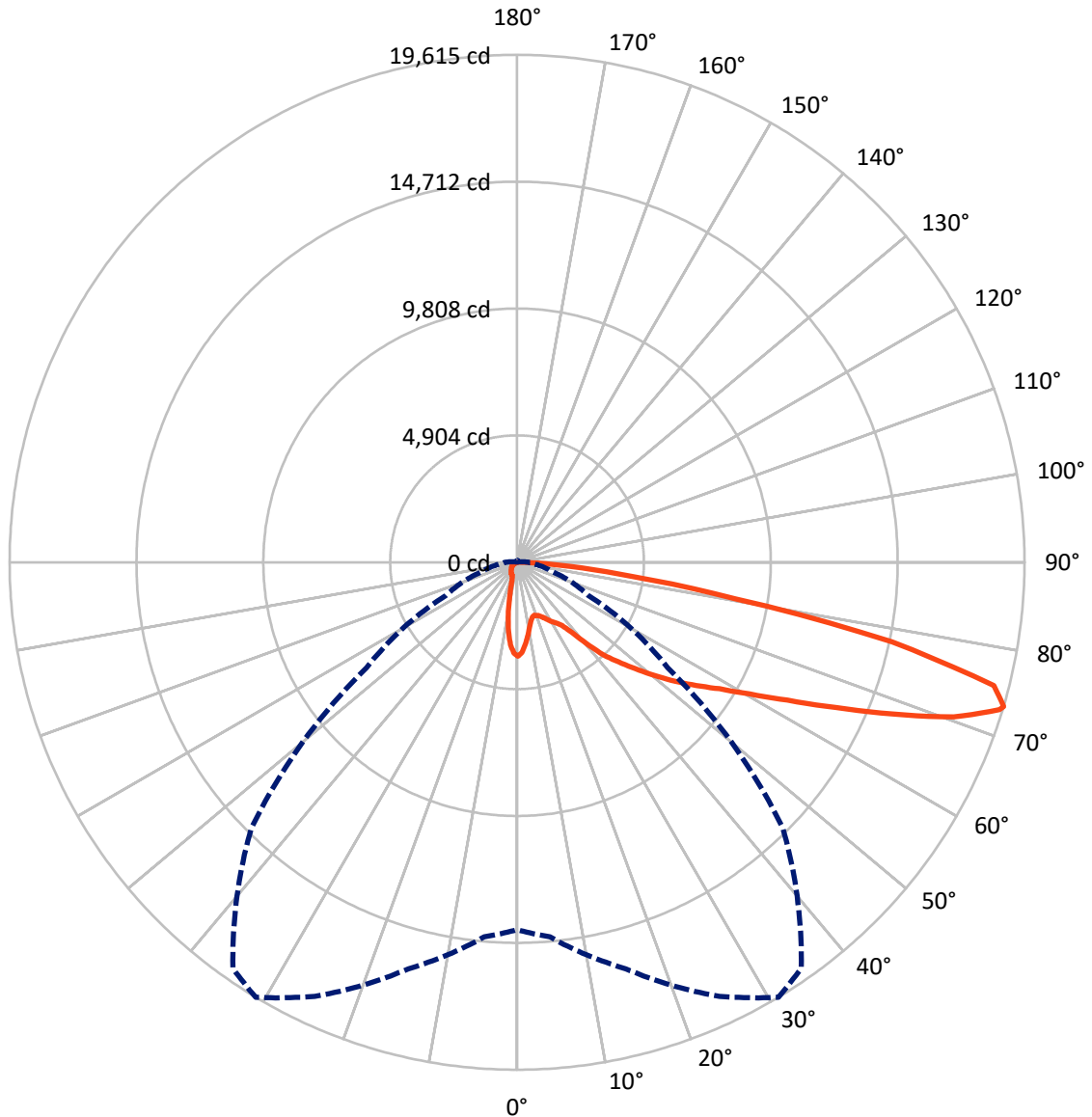
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.8 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	1923.5	0.0	1923.5
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	19178.5	0.0	19178.5
	% Fixture	90.9	0.0	90.9
Total	Lumens	21102.0	0.0	21102.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	301.0	1.4
10°-20°	653.6	3.1
20°-30°	979.3	4.6
30°-40°	1558.1	7.4
40°-50°	2782.3	13.2
50°-60°	4317.4	20.5
60°-70°	5739.4	27.2
70°-80°	4317.2	20.5
80°-90°	453.6	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°	21102.0	100.0
0°-180°	21102.0	100.0

Coefficient of Utilization

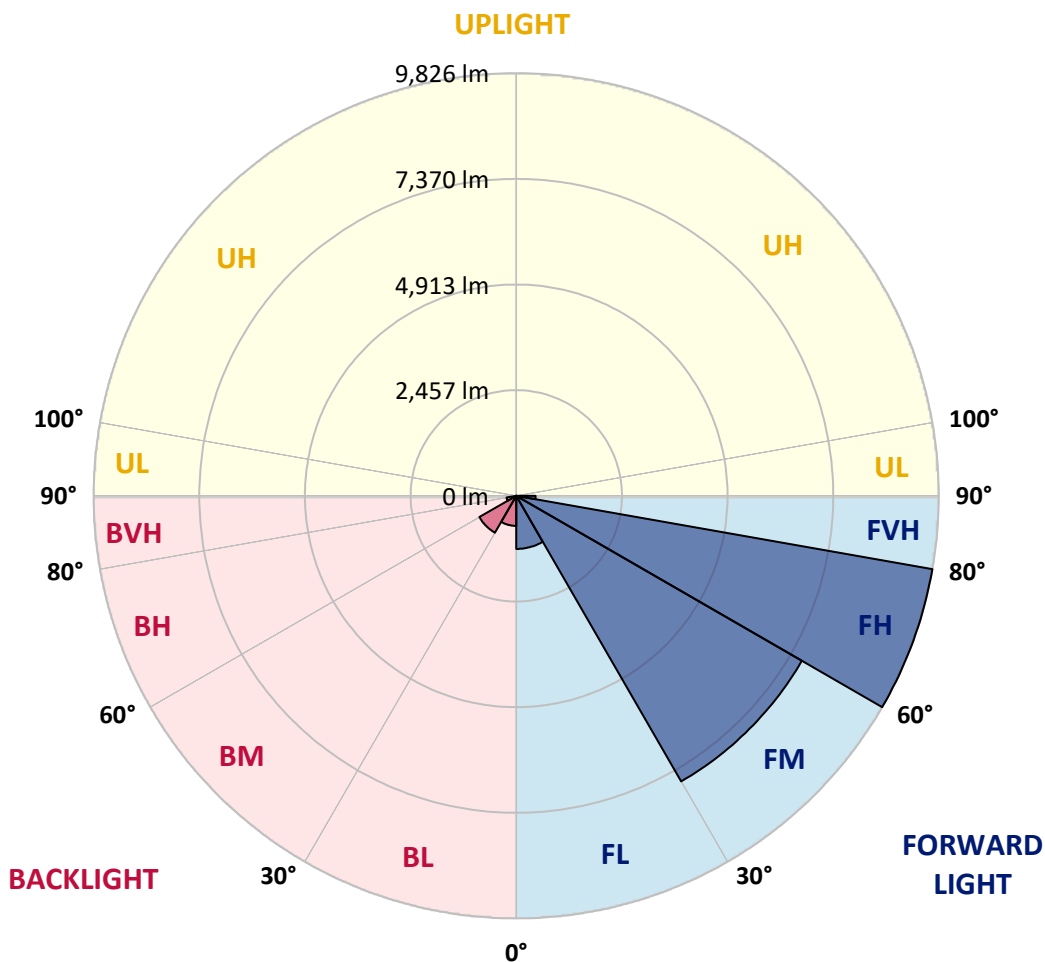


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1234.5	5.9			
FM (30°-60°)	7667.7	36.3			
FH (60°-80°)	9826.4	46.6			G4/12000
FVH (80°-90°)	449.8	2.1			G3/500
BL (0°-30°)	699.5	3.3	B2/1000		
BM (30°-60°)	990.1	4.7	B1/1000		
BH (60°-80°)	230.1	1.1	B1/500		G1/500
BVH (80°-90°)	3.8	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°	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6
2.5°	3440.6	3455.1	3470.6	3473.7	3499.5	3500.5	3537.7	3565.6	3593.5	3620.3	3629.6
5°	3087.5	3111.2	3139.1	3167.0	3221.7	3243.4	3334.3	3427.2	3516.0	3600.7	3642.0
7.5°	2710.6	2737.4	2776.7	2845.9	2906.8	2949.1	3092.7	3257.9	3423.1	3579.0	3668.8
10°	2366.7	2391.5	2432.8	2506.1	2600.1	2657.9	2851.0	3080.3	3322.9	3559.4	3709.1
12.5°	2147.8	2161.2	2184.0	2262.4	2347.1	2412.2	2639.3	2923.3	3240.3	3558.4	3774.2
15°	2107.5	2111.7	2093.1	2128.2	2194.3	2257.3	2487.5	2796.3	3177.3	3574.9	3858.8
17.5°	2171.6	2169.5	2107.5	2103.4	2156.1	2207.7	2413.2	2708.5	3132.9	3613.1	3968.3
20°	2268.6	2261.4	2154.0	2134.4	2190.2	2238.7	2408.0	2675.5	3116.4	3677.1	4101.5
22.5°	2397.7	2385.3	2217.0	2196.4	2256.2	2306.8	2472.1	2707.5	3130.9	3762.8	4256.4
25°	2557.8	2539.2	2325.4	2302.7	2363.6	2414.2	2586.7	2799.4	3174.2	3867.1	4452.6
27.5°	2738.5	2711.6	2498.9	2440.0	2509.2	2561.9	2739.5	2939.8	3242.4	3977.6	4693.2
30°	2908.9	2873.7	2681.7	2584.6	2669.3	2728.1	2904.7	3107.1	3351.8	4148.0	5022.6
32.5°	3080.3	3041.0	2844.8	2729.2	2805.6	2869.6	3075.1	3337.4	3557.3	4408.2	5460.4
35°	3474.7	3433.4	3192.8	3001.8	3000.8	3036.9	3313.6	3652.3	3828.9	4770.6	5982.9
37.5°	4138.7	4114.9	3885.7	3523.3	3426.2	3385.9	3638.9	4028.2	4219.2	5269.4	6572.5
40°	4865.6	4845.0	4587.9	4259.5	4111.8	4012.7	4105.6	4551.7	4770.6	5878.6	7174.5
42.5°	5686.6	5588.5	5130.0	5031.9	4899.7	4824.3	4740.7	5197.1	5448.0	6541.6	7771.4
45°	6432.1	6266.9	5672.1	5523.4	5493.5	5512.1	5558.5	6064.5	6210.1	7329.4	8366.2
47.5°	6876.1	6746.0	6289.6	6147.1	6138.8	6261.7	6612.8	7044.4	6969.1	8016.1	8889.7
50°	7298.5	7180.7	6801.8	6836.9	6875.1	7042.4	7809.6	8052.3	7661.9	8638.8	9369.9
52.5°	7640.3	7460.6	7262.3	7459.5	7647.5	7917.0	9044.6	8956.8	8153.5	9134.4	9780.8
55°	7837.5	7755.9	7851.9	8050.2	8403.3	8841.2	10210.4	9709.6	8512.8	9586.7	10054.5
57.5°	8560.3	8400.2	8591.3	8762.7	9223.2	9835.6	11208.9	10270.3	8772.0	9866.5	10117.5
60°	9434.9	9305.8	9418.4	9703.4	10325.0	11044.8	12142.4	10727.7	8907.3	10046.2	9954.3
62.5°	10826.9	10656.5	10586.3	10905.4	11729.4	12515.2	12850.8	11044.8	8877.3	9966.7	9394.6
65°	12691.8	12515.2	12201.3	12490.4	13538.5	14093.0	13642.8	11111.9	8670.8	9323.4	7980.0
67.5°	14602.1	14474.0	14205.6	14692.9	15638.8	15817.5	14480.2	10948.7	8005.8	7559.7	5638.0
70°	15863.9	15809.2	15983.7	17061.7	17905.4	17853.8	15248.5	10072.0	6240.0	4648.8	2789.1
72.5°	14954.2	15216.5	16505.2	18459.9	19490.4	19069.1	14854.0	7734.2	3566.6	1788.5	806.5
73°	14200.4	14536.0	16270.8	18512.6	19615.4	19153.8	14522.6	7099.2	3040.0	1411.6	611.3
75°	9878.9	10291.0	13470.3	17241.4	19030.9	18249.2	12105.2	4345.2	1408.5	625.8	246.8
77.5°	4796.5	5101.1	7417.2	12457.4	14800.3	14258.2	7536.0	1619.1	636.1	391.4	113.6
80°	1790.5	1990.9	3219.7	6340.2	8553.1	8777.2	3314.7	612.3	423.4	314.9	57.8
82.5°	468.8	522.5	1187.5	2827.3	4383.4	4587.9	1045.0	308.7	309.8	259.2	35.1
85°	149.7	171.4	370.7	1269.1	2065.2	1813.3	272.6	149.7	225.1	193.1	19.6
87.5°	18.6	23.7	117.7	298.4	455.4	253.0	42.3	44.4	96.0	107.4	11.4
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°	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6	3630.6
2.5°	3638.9	3633.7	3634.8	3607.9	3590.4	3555.3	3519.1	3502.6	3485.0	3477.8	3485.0
5°	3657.5	3648.2	3621.3	3538.7	3451.0	3337.4	3231.0	3150.5	3049.3	3021.4	3050.3
7.5°	3686.4	3667.8	3589.3	3421.0	3225.9	3009.0	2765.3	2587.7	2442.1	2348.1	2382.2
10°	3728.7	3693.6	3535.6	3249.6	2900.6	2516.5	2170.5	1901.0	1710.0	1631.5	1628.4
12.5°	3800.0	3733.9	3469.6	3026.6	2503.0	1990.9	1537.6	1245.3	1090.4	990.3	988.2
15°	3878.5	3781.4	3385.9	2759.1	2040.4	1426.0	990.3	768.3	668.1	636.1	632.0
17.5°	3974.5	3836.1	3277.5	2429.7	1556.1	944.8	646.4	582.4	578.3	575.2	575.2
20°	4095.3	3901.2	3138.1	2052.8	1103.9	630.9	549.3	553.5	555.5	551.4	552.4
22.5°	4235.7	3967.3	2971.8	1648.0	746.6	527.7	525.6	530.8	532.8	530.8	531.8
25°	4398.9	4043.7	2769.4	1223.6	539.0	500.8	506.0	513.2	518.4	518.4	518.4
27.5°	4601.3	4136.6	2525.8	854.0	465.7	472.9	487.4	500.8	508.0	510.1	510.1
30°	4864.6	4252.3	2233.5	585.5	423.4	435.8	462.6	488.4	501.8	503.9	504.9
32.5°	5197.1	4382.4	1894.8	432.7	387.2	396.5	425.4	468.8	494.6	498.7	498.7
35°	5578.1	4533.1	1530.3	376.9	361.4	364.5	387.2	436.8	482.2	493.6	494.6
37.5°	5995.3	4681.8	1163.7	352.1	339.7	339.7	356.2	398.6	452.3	487.4	491.5
40°	6384.6	4771.7	815.8	332.5	320.1	320.1	334.6	365.5	416.1	468.8	480.2
42.5°	6743.9	4802.7	567.9	313.9	301.5	304.6	317.0	341.8	380.0	432.7	443.0
45°	7113.6	4797.5	414.1	292.2	282.9	292.2	301.5	320.1	348.0	377.9	380.0
47.5°	7392.4	4754.1	328.4	271.6	265.4	277.8	286.0	298.4	313.9	311.8	311.8
50°	7653.7	4648.8	264.3	243.7	247.8	262.3	266.4	270.5	271.6	252.0	249.9
52.5°	7851.9	4484.6	211.7	213.7	230.3	244.7	240.6	234.4	224.1	200.3	196.2
55°	7918.0	4168.6	166.2	176.6	204.5	223.0	207.6	194.1	174.5	154.9	150.8
57.5°	7798.2	3760.8	135.3	137.3	172.4	187.9	170.4	154.9	133.2	116.7	113.6
60°	7544.2	3307.4	111.5	103.3	133.2	146.6	135.3	119.8	100.2	87.8	86.7
62.5°	7040.3	2824.2	91.9	80.5	101.2	112.6	105.3	94.0	77.4	69.2	68.2
65°	5980.9	2259.3	74.3	65.1	78.5	87.8	81.6	73.3	60.9	54.7	53.7
67.5°	4174.8	1527.2	60.9	53.7	62.0	69.2	64.0	59.9	48.5	47.5	48.5
70°	2013.6	736.2	50.6	43.4	48.5	53.7	51.6	48.5	46.5	53.7	62.0
72.5°	577.2	246.8	40.3	36.1	39.2	42.3	44.4	43.4	50.6	65.1	75.4
73°	444.0	199.3	38.2	34.1	37.2	41.3	43.4	42.3	51.6	66.1	75.4
75°	190.0	96.0	28.9	27.9	31.0	36.1	38.2	38.2	51.6	67.1	72.3
77.5°	85.7	51.6	18.6	21.7	26.8	28.9	32.0	32.0	41.3	51.6	51.6
80°	48.5	27.9	14.5	16.5	19.6	19.6	19.6	17.6	18.6	20.7	22.7
82.5°	31.0	18.6	11.4	13.4	12.4	10.3	8.3	8.3	7.2	8.3	10.3
85°	17.6	10.3	10.3	8.3	5.2	4.1	5.2	4.1	1.0	0.0	1.0
87.5°	10.3	6.2	3.1	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)