

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: P322672

Luminaire Tested: **GLEON-SA8A-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322672
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-SA8A-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 2700K, 615mA 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: 19498 lumens
Efficiency: N/A
Efficacy: 75.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

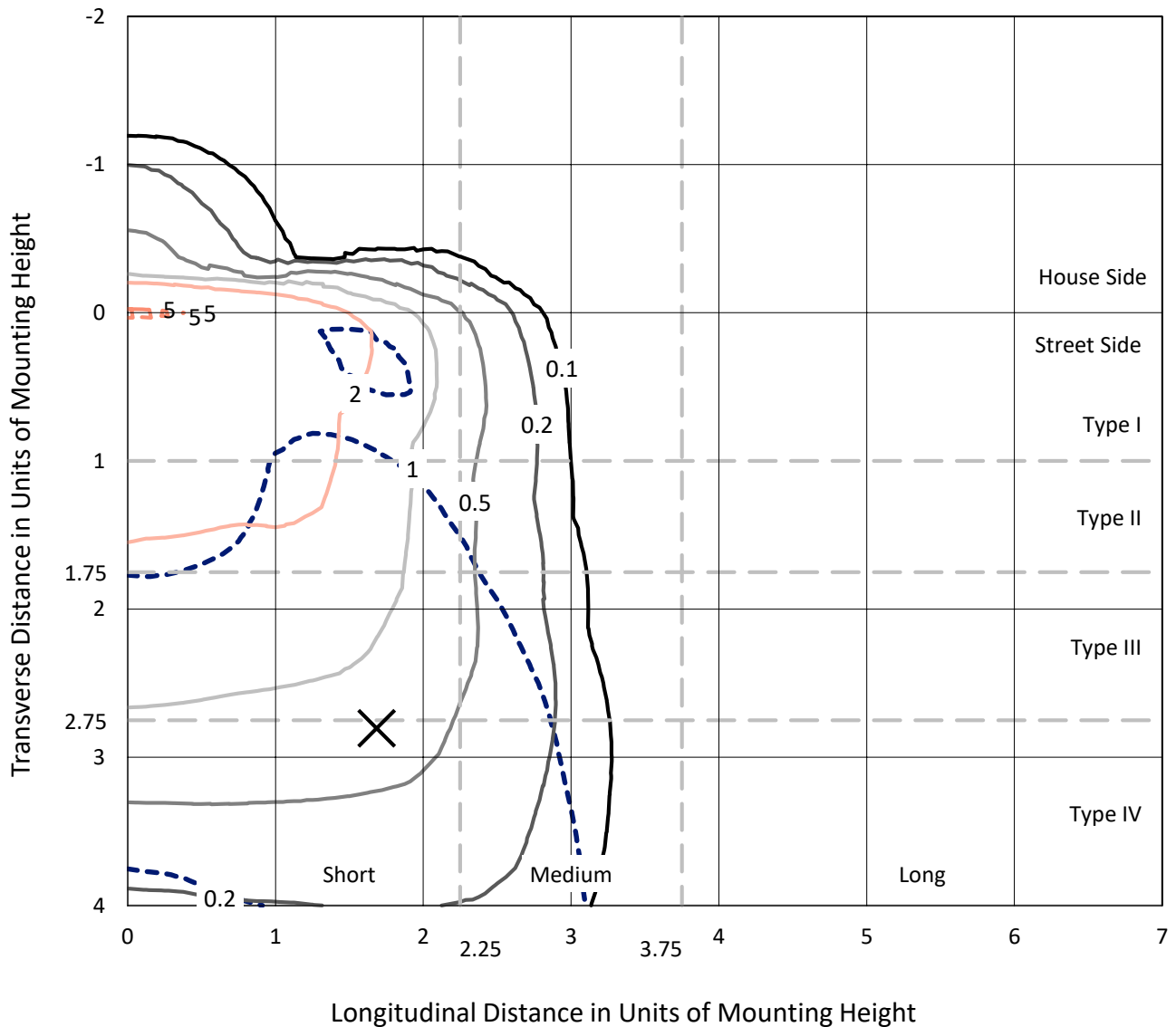
Input Watts (W): 257
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

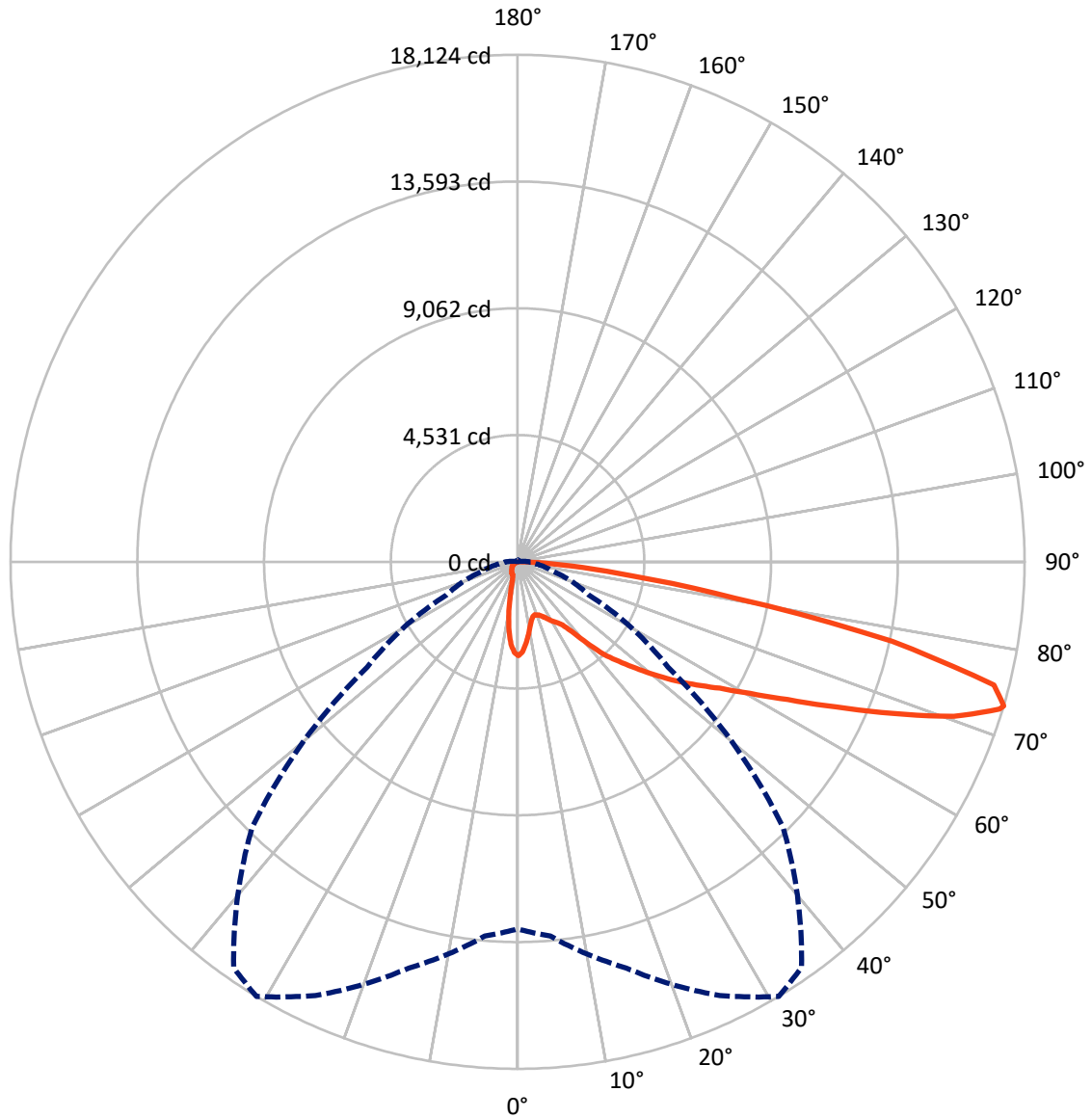
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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	1777.3	0.0	1777.3
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	17720.7	0.0	17720.7
	% Fixture	90.9	0.0	90.9
Total	Lumens	19498.0	0.0	19498.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	278.1	1.4
10°-20°	603.9	3.1
20°-30°	904.9	4.6
30°-40°	1439.7	7.4
40°-50°	2570.8	13.2
50°-60°	3989.2	20.5
60°-70°	5303.1	27.2
70°-80°	3989.0	20.5
80°-90°	419.2	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°	19498.0	100.0
0°-180°	19498.0	100.0



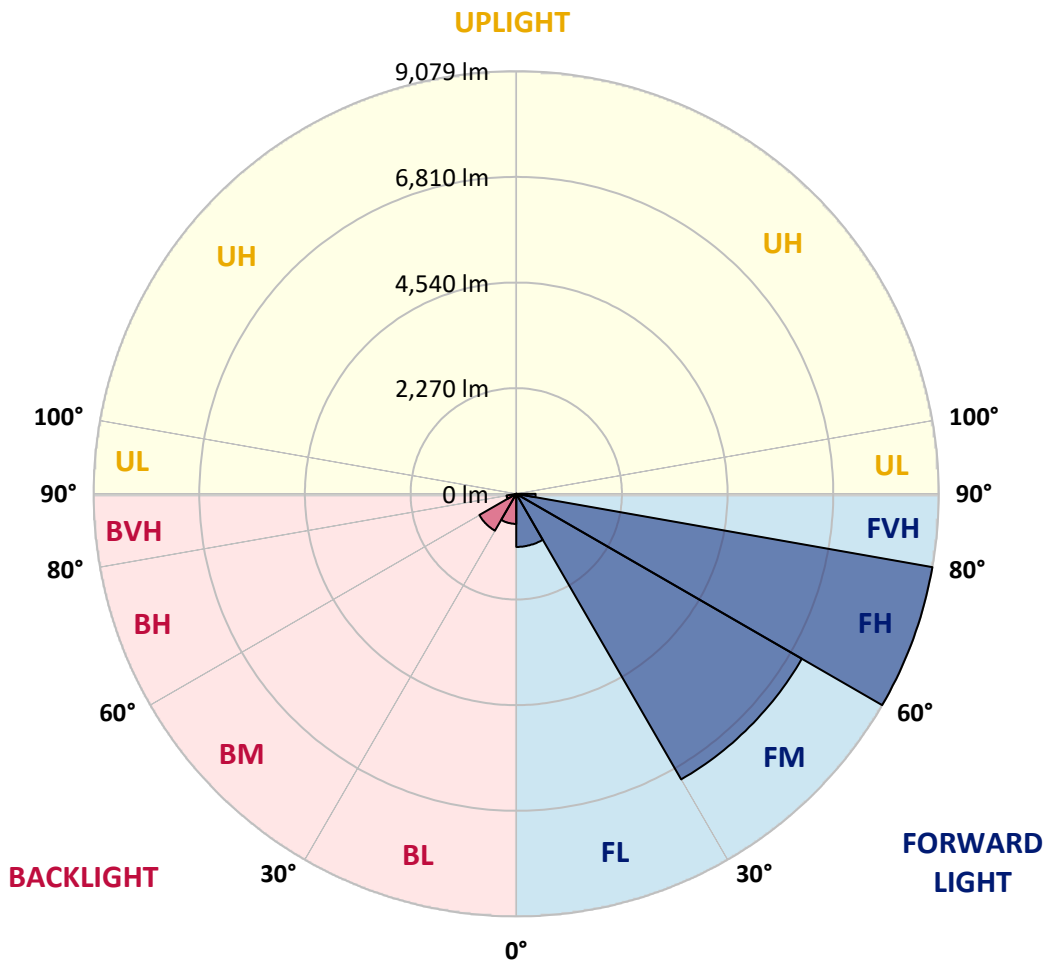
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1140.7	5.9			
FM (30°-60°)	7084.9	36.3			
FH (60°-80°)	9079.5	46.6			G4/12000
FVH (80°-90°)	415.6	2.1			G3/500
BL (0°-30°)	646.3	3.3	B2/1000		
BM (30°-60°)	914.8	4.7	B1/1000		
BH (60°-80°)	212.6	1.1	B1/500		G1/500
BVH (80°-90°)	3.5	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°	3354.7	3354.7	3354.7	3354.7	3354.7	3354.7	3354.7	3354.7	3354.7	3354.7	3354.7
2.5°	3179.1	3192.5	3206.8	3209.6	3233.5	3234.5	3268.8	3294.6	3320.3	3345.1	3353.7
5°	2852.8	2874.8	2900.5	2926.3	2976.8	2996.9	3080.8	3166.7	3248.8	3327.0	3365.2
7.5°	2504.6	2529.4	2565.6	2629.5	2685.8	2725.0	2857.6	3010.2	3162.9	3307.0	3390.0
10°	2186.8	2209.7	2247.9	2315.6	2402.5	2455.9	2634.3	2846.1	3070.3	3288.8	3427.2
12.5°	1984.6	1997.0	2018.0	2090.5	2168.7	2228.8	2438.7	2701.1	2994.0	3287.9	3487.3
15°	1947.4	1951.2	1934.0	1966.4	2027.5	2085.7	2298.5	2583.7	2935.8	3303.1	3565.5
17.5°	2006.5	2004.6	1947.4	1943.5	1992.2	2039.9	2229.8	2502.6	2894.8	3338.5	3666.7
20°	2096.2	2089.5	1990.3	1972.2	2023.7	2068.5	2225.0	2472.1	2879.5	3397.6	3789.7
22.5°	2215.5	2204.0	2048.5	2029.4	2084.7	2131.5	2284.2	2501.7	2892.9	3476.8	3932.9
25°	2363.3	2346.2	2148.7	2127.7	2184.0	2230.7	2390.1	2586.6	2933.0	3573.2	4114.1
27.5°	2530.3	2505.5	2309.0	2254.6	2318.5	2367.2	2531.3	2716.4	2995.9	3675.3	4336.5
30°	2687.7	2655.3	2477.8	2388.2	2466.4	2520.8	2683.9	2870.9	3097.1	3832.7	4640.8
32.5°	2846.1	2809.9	2628.6	2521.7	2592.3	2651.5	2841.4	3083.7	3286.9	4073.1	5045.4
35°	3210.6	3172.4	2950.1	2773.6	2772.7	2806.1	3061.8	3374.7	3537.9	4408.0	5528.1
37.5°	3824.1	3802.2	3590.3	3255.4	3165.8	3128.5	3362.3	3722.0	3898.5	4868.9	6072.9
40°	4495.8	4476.7	4239.1	3935.7	3799.3	3707.7	3793.6	4205.7	4408.0	5431.8	6629.2
42.5°	5254.3	5163.7	4740.0	4649.4	4527.3	4457.6	4380.3	4802.1	5033.9	6044.3	7180.7
45°	5943.2	5790.5	5241.0	5103.6	5075.9	5093.1	5136.0	5603.5	5738.1	6772.3	7730.2
47.5°	6353.5	6233.2	5811.5	5679.9	5672.2	5785.8	6110.2	6509.0	6439.3	7406.8	8214.0
50°	6743.7	6634.9	6284.8	6317.2	6352.5	6507.1	7216.0	7440.2	7079.5	7982.1	8657.6
52.5°	7059.5	6893.5	6710.3	6892.5	7066.2	7315.2	8357.1	8276.0	7533.7	8440.1	9037.4
55°	7241.7	7166.4	7255.1	7438.3	7764.6	8169.1	9434.3	8971.6	7865.7	8858.0	9290.2
57.5°	7909.6	7761.7	7938.2	8096.6	8522.2	9088.0	10356.9	9489.6	8105.2	9116.6	9348.4
60°	8717.8	8598.5	8702.5	8965.8	9540.2	10205.2	11219.4	9912.3	8230.2	9282.6	9197.7
62.5°	10003.9	9846.5	9781.6	10076.4	10837.8	11563.9	11874.0	10205.2	8202.5	9209.1	8680.5
65°	11727.0	11563.9	11273.8	11541.0	12509.4	13021.8	12605.8	10267.2	8011.7	8614.7	7373.4
67.5°	13492.2	13373.8	13125.8	13576.1	14450.1	14615.1	13379.6	10116.5	7397.3	6985.1	5209.5
70°	14658.1	14607.5	14768.8	15764.9	16544.4	16496.7	14089.4	9306.4	5765.7	4295.4	2577.1
72.5°	13817.5	14059.8	15250.6	17056.7	18008.9	17619.7	13725.0	7146.3	3295.5	1652.5	745.2
73°	13121.0	13431.1	15034.0	17105.4	18124.4	17697.9	13418.7	6559.5	2808.9	1304.3	564.8
75°	9128.0	9508.7	12446.4	15930.9	17584.4	16862.1	11185.1	4014.9	1301.4	578.2	228.0
77.5°	4431.9	4713.3	6853.4	11510.5	13675.3	13174.4	6963.1	1496.1	587.7	361.6	105.0
80°	1654.4	1839.5	2974.9	5858.3	7902.9	8110.0	3062.7	565.8	391.2	291.0	53.4
82.5°	433.2	482.8	1097.2	2612.4	4050.2	4239.1	965.6	285.3	286.2	239.5	32.4
85°	138.3	158.4	342.5	1172.6	1908.2	1675.4	251.9	138.3	208.0	178.4	18.1
87.5°	17.2	21.9	108.8	275.7	420.8	233.8	39.1	41.0	88.7	99.2	10.5
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°	3354.7	3354.7	3354.7	3354.7	3354.7	3354.7	3354.7	3354.7	3354.7	3354.7	3354.7
2.5°	3362.3	3357.5	3358.5	3333.7	3317.5	3285.0	3251.6	3236.4	3220.1	3213.5	3220.1
5°	3379.5	3370.9	3346.1	3269.8	3188.7	3083.7	2985.4	2911.0	2817.5	2791.7	2818.5
7.5°	3406.2	3389.0	3316.5	3161.0	2980.7	2780.3	2555.1	2391.0	2256.5	2169.7	2201.1
10°	3445.3	3412.9	3266.9	3002.6	2680.1	2325.2	2005.6	1756.5	1580.0	1507.5	1504.6
12.5°	3511.1	3450.1	3205.8	2796.5	2312.8	1839.5	1420.7	1150.7	1007.5	915.0	913.1
15°	3583.7	3494.0	3128.5	2549.4	1885.3	1317.6	915.0	709.9	617.3	587.7	583.9
17.5°	3672.4	3544.5	3028.4	2245.0	1437.9	873.0	597.3	538.1	534.3	531.4	531.4
20°	3784.0	3604.6	2899.6	1896.8	1019.9	583.0	507.6	511.4	513.3	509.5	510.5
22.5°	3913.8	3665.7	2745.9	1522.8	689.8	487.6	485.6	490.4	492.3	490.4	491.4
25°	4064.5	3736.3	2558.9	1130.6	498.0	462.7	467.5	474.2	479.0	479.0	479.0
27.5°	4251.5	3822.2	2333.8	789.1	430.3	437.0	450.3	462.7	469.4	471.3	471.3
30°	4494.8	3929.0	2063.8	541.0	391.2	402.6	427.4	451.3	463.7	465.6	466.6
32.5°	4802.1	4049.3	1750.8	399.8	357.8	366.4	393.1	433.2	457.0	460.8	460.8
35°	5154.1	4188.6	1414.0	348.3	333.9	336.8	357.8	403.6	445.6	456.1	457.0
37.5°	5539.6	4326.0	1075.3	325.4	313.9	313.9	329.2	368.3	417.9	450.3	454.2
40°	5899.3	4409.0	753.8	307.2	295.8	295.8	309.1	337.8	384.5	433.2	443.7
42.5°	6231.3	4437.6	524.8	290.1	278.6	281.5	292.9	315.8	351.1	399.8	409.3
45°	6572.9	4432.8	382.6	270.0	261.4	270.0	278.6	295.8	321.5	349.2	351.1
47.5°	6830.5	4392.7	303.4	250.9	245.2	256.7	264.3	275.7	290.1	288.1	288.1
50°	7071.9	4295.4	244.3	225.2	229.0	242.3	246.2	250.0	250.9	232.8	230.9
52.5°	7255.1	4143.7	195.6	197.5	212.8	226.1	222.3	216.6	207.0	185.1	181.3
55°	7316.2	3851.8	153.6	163.2	188.9	206.1	191.8	179.4	161.2	143.1	139.3
57.5°	7205.5	3474.9	125.0	126.9	159.3	173.6	157.4	143.1	123.1	107.8	105.0
60°	6970.8	3056.0	103.0	95.4	123.1	135.5	125.0	110.7	92.5	81.1	80.1
62.5°	6505.2	2609.5	84.9	74.4	93.5	104.0	97.3	86.8	71.6	63.9	63.0
65°	5526.2	2087.6	68.7	60.1	72.5	81.1	75.4	67.7	56.3	50.6	49.6
67.5°	3857.5	1411.1	56.3	49.6	57.2	63.9	59.2	55.3	44.8	43.9	44.8
70°	1860.5	680.3	46.8	40.1	44.8	49.6	47.7	44.8	42.9	49.6	57.2
72.5°	533.4	228.0	37.2	33.4	36.3	39.1	41.0	40.1	46.8	60.1	69.7
73°	410.3	184.1	35.3	31.5	34.3	38.2	40.1	39.1	47.7	61.1	69.7
75°	175.6	88.7	26.7	25.8	28.6	33.4	35.3	35.3	47.7	62.0	66.8
77.5°	79.2	47.7	17.2	20.0	24.8	26.7	29.6	29.6	38.2	47.7	47.7
80°	44.8	25.8	13.4	15.3	18.1	18.1	18.1	16.2	17.2	19.1	21.0
82.5°	28.6	17.2	10.5	12.4	11.4	9.5	7.6	7.6	6.7	7.6	9.5
85°	16.2	9.5	9.5	7.6	4.8	3.8	4.8	3.8	1.0	0.0	1.0
87.5°	9.5	5.7	2.9	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)