

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: P383154

Luminaire Tested: **GLEON-SA4D-735-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383154
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-SA4D-735-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 1200mA 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: 20705.5 lumens
Efficiency: N/A
Efficacy: 80.3 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

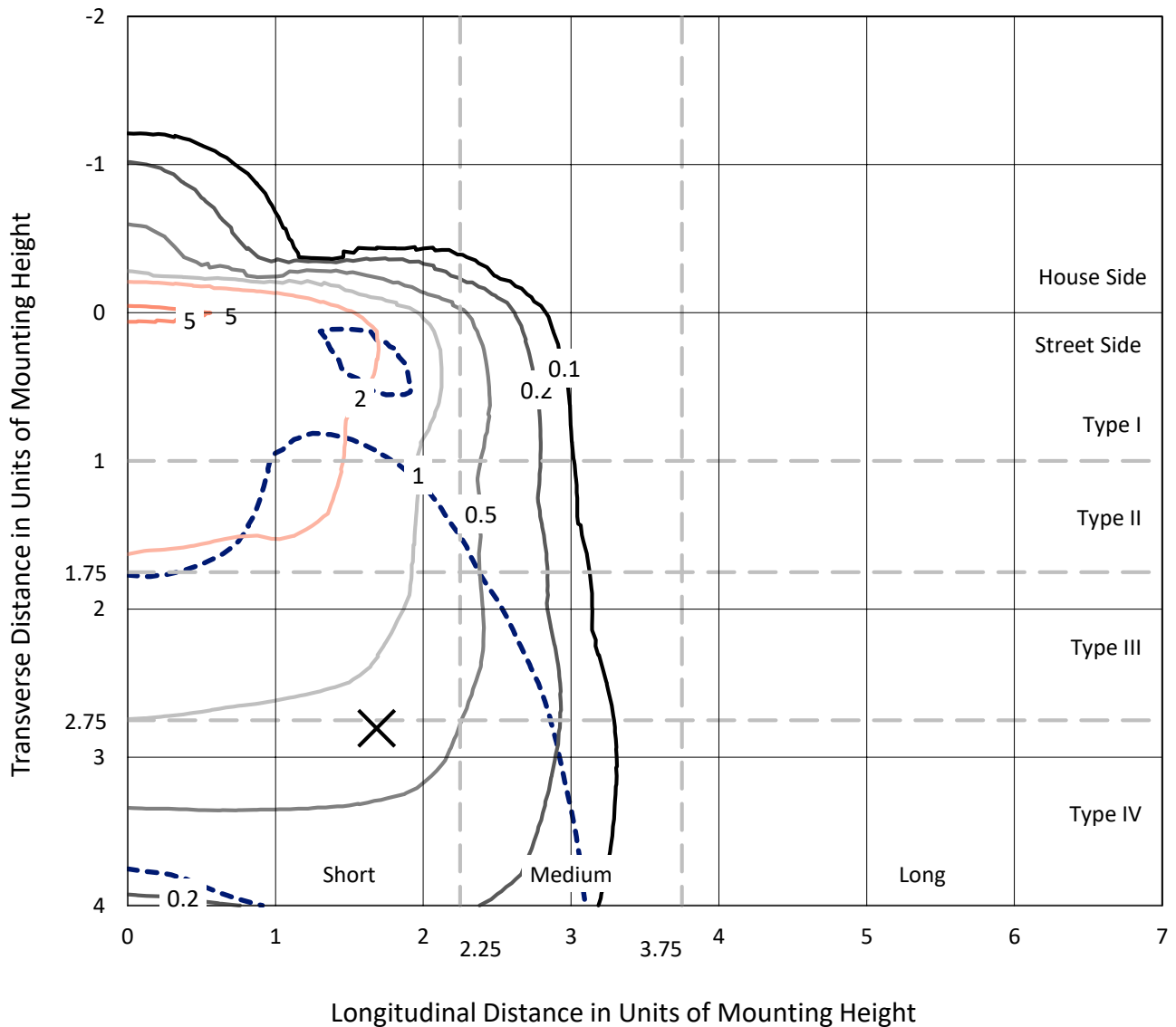
Input Watts (W): 258
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

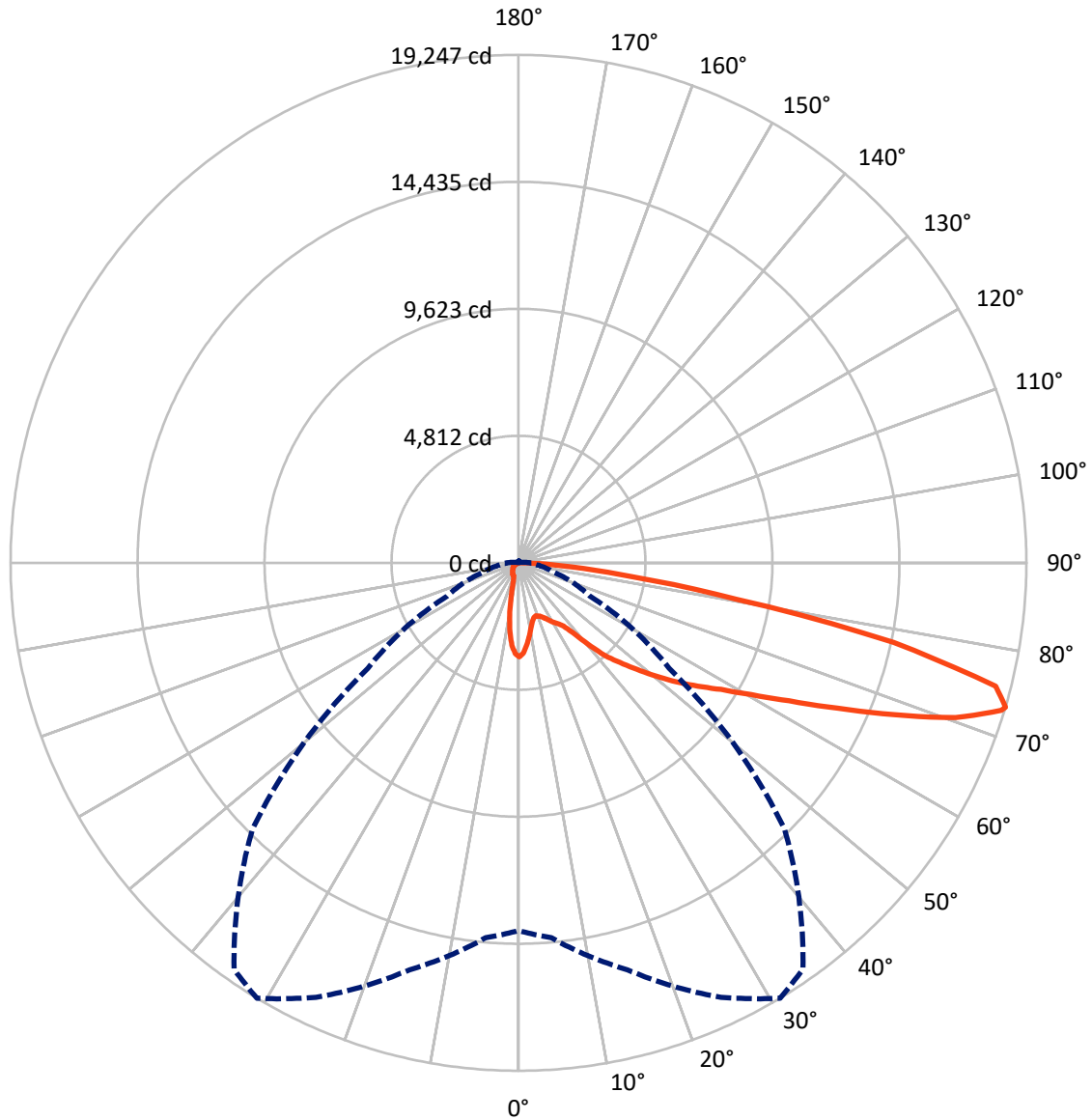
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.7 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	1887.4	0.0	1887.4
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	18818.1	0.0	18818.1
	% Fixture	90.9	0.0	90.9
Total	Lumens	20705.5	0.0	20705.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	295.4	1.4
10°-20°	641.3	3.1
20°-30°	960.9	4.6
30°-40°	1528.8	7.4
40°-50°	2730.1	13.2
50°-60°	4236.3	20.5
60°-70°	5631.5	27.2
70°-80°	4236.1	20.5
80°-90°	445.1	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°	20705.5	100.0
0°-180°	20705.5	100.0

Coefficient of Utilization

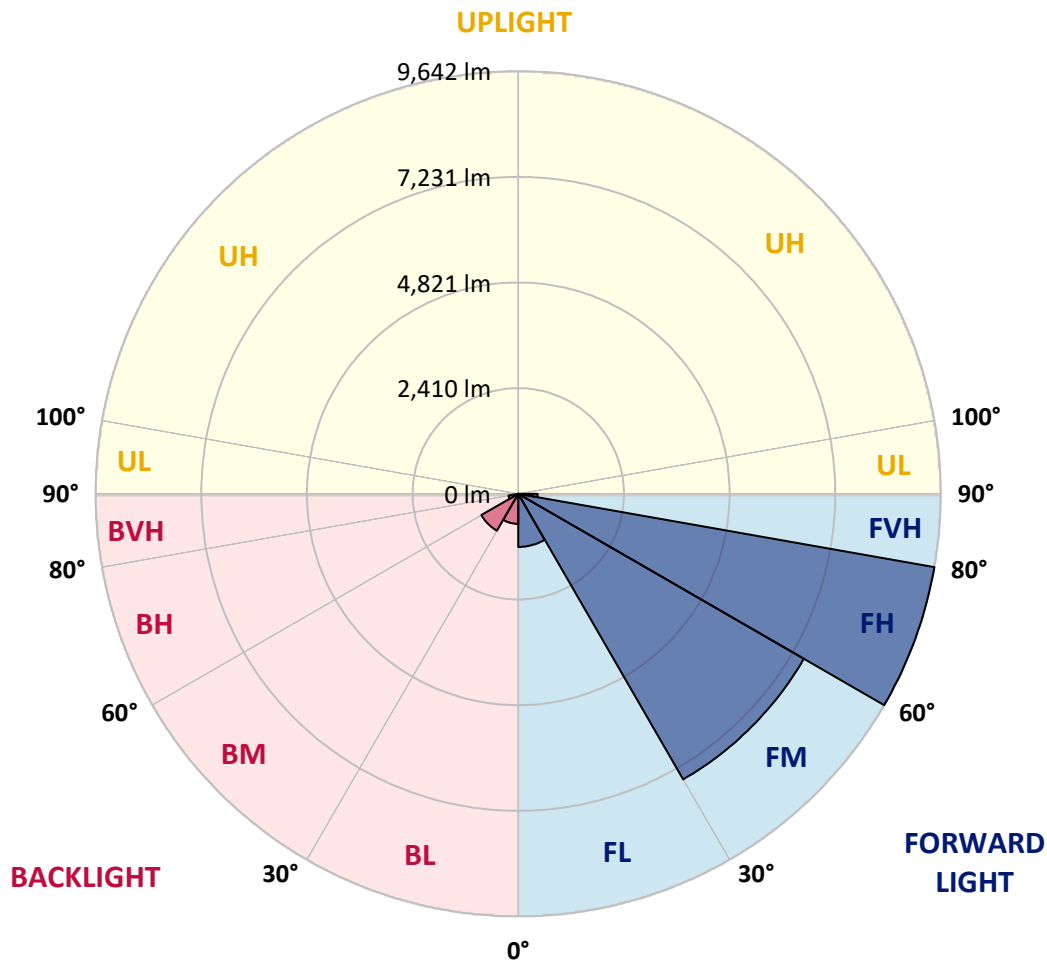


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1211.3	5.9			
FM (30°-60°)	7523.7	36.3			
FH (60°-80°)	9641.8	46.6			G4/12000
FVH (80°-90°)	441.4	2.1			G3/500
BL (0°-30°)	686.3	3.3	B2/1000		
BM (30°-60°)	971.5	4.7	B1/1000		
BH (60°-80°)	225.8	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°	3562.4	3562.4	3562.4	3562.4	3562.4	3562.4	3562.4	3562.4	3562.4	3562.4	3562.4
2.5°	3376.0	3390.2	3405.4	3408.4	3433.8	3434.8	3471.2	3498.6	3525.9	3552.3	3561.4
5°	3029.5	3052.8	3080.2	3107.5	3161.2	3182.4	3271.6	3362.8	3450.0	3533.1	3573.6
7.5°	2659.7	2686.0	2724.5	2792.4	2852.2	2893.7	3034.5	3196.7	3358.8	3511.7	3599.9
10°	2322.3	2346.6	2387.1	2459.0	2551.2	2608.0	2797.4	3022.4	3260.5	3492.6	3639.5
12.5°	2107.4	2120.7	2142.9	2220.0	2303.0	2366.9	2589.8	2868.4	3179.5	3491.5	3703.3
15°	2067.9	2072.0	2053.8	2088.3	2153.1	2214.8	2440.8	2743.8	3117.6	3507.7	3786.4
17.5°	2130.7	2128.8	2067.9	2063.9	2115.5	2166.2	2367.9	2657.6	3074.1	3545.2	3893.8
20°	2226.0	2218.9	2113.6	2094.3	2149.0	2196.6	2362.8	2625.2	3057.8	3608.0	4024.5
22.5°	2352.6	2340.5	2175.3	2155.0	2213.8	2263.5	2425.7	2656.6	3072.1	3692.1	4176.4
25°	2509.7	2491.4	2281.7	2259.5	2319.2	2368.8	2538.1	2746.8	3114.6	3794.5	4369.0
27.5°	2687.0	2660.7	2451.9	2394.2	2462.1	2513.8	2688.1	2884.6	3181.4	3902.9	4605.0
30°	2854.2	2819.7	2631.2	2536.0	2619.1	2676.9	2850.2	3048.8	3288.8	4070.0	4928.3
32.5°	3022.4	2983.8	2791.4	2677.9	2752.9	2815.7	3017.3	3274.7	3490.5	4325.4	5357.8
35°	3409.5	3368.9	3132.8	2945.4	2944.3	2979.8	3251.4	3583.7	3756.9	4681.0	5870.5
37.5°	4060.9	4037.6	3812.7	3457.1	3361.8	3322.3	3570.5	3952.5	4140.0	5170.4	6449.0
40°	4774.2	4754.0	4501.7	4179.5	4034.5	3937.3	4028.5	4466.2	4681.0	5768.1	7039.7
42.5°	5579.7	5483.5	5033.6	4937.4	4807.6	4733.7	4651.6	5099.5	5345.7	6418.6	7625.4
45°	6311.2	6149.1	5565.5	5419.7	5390.2	5408.5	5454.1	5950.5	6093.4	7191.7	8209.0
47.5°	6746.9	6619.3	6171.4	6031.6	6023.5	6144.1	6488.6	6912.1	6838.1	7865.5	8722.6
50°	7161.4	7045.9	6674.0	6708.4	6745.9	6910.0	7662.8	7900.9	7518.0	8476.4	9193.8
52.5°	7496.7	7320.4	7125.9	7319.4	7503.8	7768.3	8874.7	8788.5	8000.2	8962.8	9597.1
55°	7690.2	7610.2	7704.4	7899.0	8245.5	8675.0	10018.5	9527.1	8352.8	9406.6	9865.6
57.5°	8399.5	8242.4	8429.9	8598.1	9049.9	9650.7	10998.3	10077.3	8607.1	9681.2	9927.4
60°	9257.6	9131.0	9241.4	9521.1	10131.0	10837.3	11914.3	10526.2	8739.9	9857.5	9767.3
62.5°	10623.5	10456.2	10387.4	10700.4	11509.0	12280.0	12609.3	10837.3	8710.5	9779.5	9218.1
65°	12453.3	12280.0	11972.1	12255.7	13284.1	13828.2	13386.4	10903.1	8507.9	9148.3	7830.0
67.5°	14327.8	14202.1	13938.7	14416.9	15345.0	15520.2	14208.2	10743.0	7855.4	7417.6	5532.1
70°	15565.9	15512.1	15683.3	16741.2	17569.0	17518.3	14962.0	9882.8	6122.8	4561.4	2736.7
72.5°	14673.2	14930.6	16195.0	18113.0	19124.2	18710.9	14574.9	7588.9	3499.6	1754.8	791.3
73°	13933.6	14262.8	15965.0	18164.7	19246.8	18793.9	14249.7	6965.7	2982.9	1385.0	599.8
75°	9693.3	10097.6	13217.3	16917.5	18673.3	17906.4	11877.8	4263.6	1382.0	614.0	242.1
77.5°	4706.4	5005.2	7277.8	12223.3	14522.3	13990.4	7394.3	1588.7	624.1	384.0	111.4
80°	1756.9	1953.5	3159.2	6221.1	8392.4	8612.3	3252.4	600.8	415.4	309.0	56.7
82.5°	460.0	512.7	1165.2	2774.1	4301.0	4501.7	1025.4	302.9	304.0	254.3	34.5
85°	146.9	168.2	363.8	1245.2	2026.4	1779.2	267.4	146.9	220.9	189.5	19.3
87.5°	18.3	23.3	115.5	292.8	446.9	248.3	41.5	43.6	94.3	105.4	11.2
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°	3562.4	3562.4	3562.4	3562.4	3562.4	3562.4	3562.4	3562.4	3562.4	3562.4	3562.4
2.5°	3570.5	3565.5	3566.5	3540.2	3522.9	3488.5	3453.0	3436.8	3419.5	3412.4	3419.5
5°	3588.8	3579.7	3553.3	3472.3	3386.1	3274.7	3170.3	3091.2	2992.0	2964.7	2993.0
7.5°	3617.1	3598.9	3521.9	3356.7	3165.2	2952.4	2713.3	2539.1	2396.2	2304.0	2337.4
10°	3658.7	3624.2	3469.2	3188.6	2846.1	2469.2	2129.8	1865.3	1677.9	1600.9	1597.8
12.5°	3728.6	3663.8	3404.3	2969.7	2456.0	1953.5	1508.6	1221.9	1070.0	971.7	969.6
15°	3805.6	3710.4	3322.3	2707.3	2002.1	1399.3	971.7	753.8	655.5	624.1	620.0
17.5°	3899.8	3764.0	3215.9	2384.1	1526.9	927.1	634.3	571.4	567.4	564.3	564.3
20°	4018.3	3827.9	3079.1	2014.3	1083.1	619.1	539.0	543.1	545.1	541.0	542.1
22.5°	4156.2	3892.8	2916.0	1617.1	732.6	517.8	515.7	520.8	522.8	520.8	521.8
25°	4316.2	3967.7	2717.4	1200.7	528.9	491.4	496.5	503.6	508.6	508.6	508.6
27.5°	4514.8	4058.9	2478.3	837.9	456.9	464.0	478.3	491.4	498.5	500.5	500.5
30°	4773.2	4172.4	2191.6	574.5	415.4	427.6	453.9	479.3	492.4	494.5	495.5
32.5°	5099.5	4300.0	1859.3	424.5	380.0	389.1	417.4	460.0	485.3	489.3	489.3
35°	5473.3	4448.0	1501.6	369.8	354.6	357.6	380.0	428.6	473.1	484.3	485.3
37.5°	5882.6	4593.8	1141.9	345.5	333.3	333.3	349.5	391.1	443.8	478.3	482.3
40°	6264.7	4682.1	800.4	326.2	314.1	314.1	328.3	358.6	408.3	460.0	471.2
42.5°	6617.2	4712.4	557.3	308.0	295.9	298.9	311.0	335.4	372.9	424.5	434.7
45°	6980.0	4707.4	406.3	286.7	277.6	286.7	295.9	314.1	341.4	370.8	372.9
47.5°	7253.5	4664.8	322.2	266.5	260.4	272.6	280.7	292.8	308.0	306.0	306.0
50°	7509.9	4561.4	259.3	239.1	243.1	257.4	261.4	265.5	266.5	247.2	245.2
52.5°	7704.4	4400.4	207.7	209.7	225.9	240.2	236.1	230.0	219.8	196.6	192.6
55°	7769.3	4090.3	163.1	173.3	200.7	218.8	203.6	190.5	171.2	151.9	147.9
57.5°	7651.7	3690.0	132.7	134.8	169.2	184.4	167.2	151.9	130.7	114.5	111.4
60°	7402.4	3245.3	109.5	101.4	130.7	143.8	132.7	117.6	98.3	86.2	85.1
62.5°	6908.0	2771.1	90.2	79.0	99.3	110.5	103.3	92.2	76.0	67.9	66.9
65°	5868.5	2216.9	72.9	63.8	77.0	86.2	80.0	71.9	59.8	53.7	52.7
67.5°	4096.4	1498.5	59.8	52.7	60.8	67.9	62.8	58.8	47.6	46.6	47.6
70°	1975.7	722.4	49.7	42.6	47.6	52.7	50.7	47.6	45.6	52.7	60.8
72.5°	566.4	242.1	39.5	35.5	38.5	41.5	43.6	42.6	49.7	63.8	74.0
73°	435.7	195.5	37.4	33.4	36.5	40.5	42.6	41.5	50.7	64.8	74.0
75°	186.4	94.3	28.4	27.4	30.4	35.5	37.4	37.4	50.7	65.9	70.9
77.5°	84.1	50.7	18.3	21.2	26.4	28.4	31.4	31.4	40.5	50.7	50.7
80°	47.6	27.4	14.2	16.2	19.3	19.3	19.3	17.2	18.3	20.3	22.3
82.5°	30.4	18.3	11.2	13.1	12.2	10.2	8.1	8.1	7.1	8.1	10.2
85°	17.2	10.2	10.2	8.1	5.0	4.1	5.0	4.1	1.0	0.0	1.0
87.5°	10.2	6.1	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)