

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: P382915

Luminaire Tested: **GLEON-SA2D-735-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P382915
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA2D-735-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14790.2 lumens
Efficiency: N/A
Efficacy: 114.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

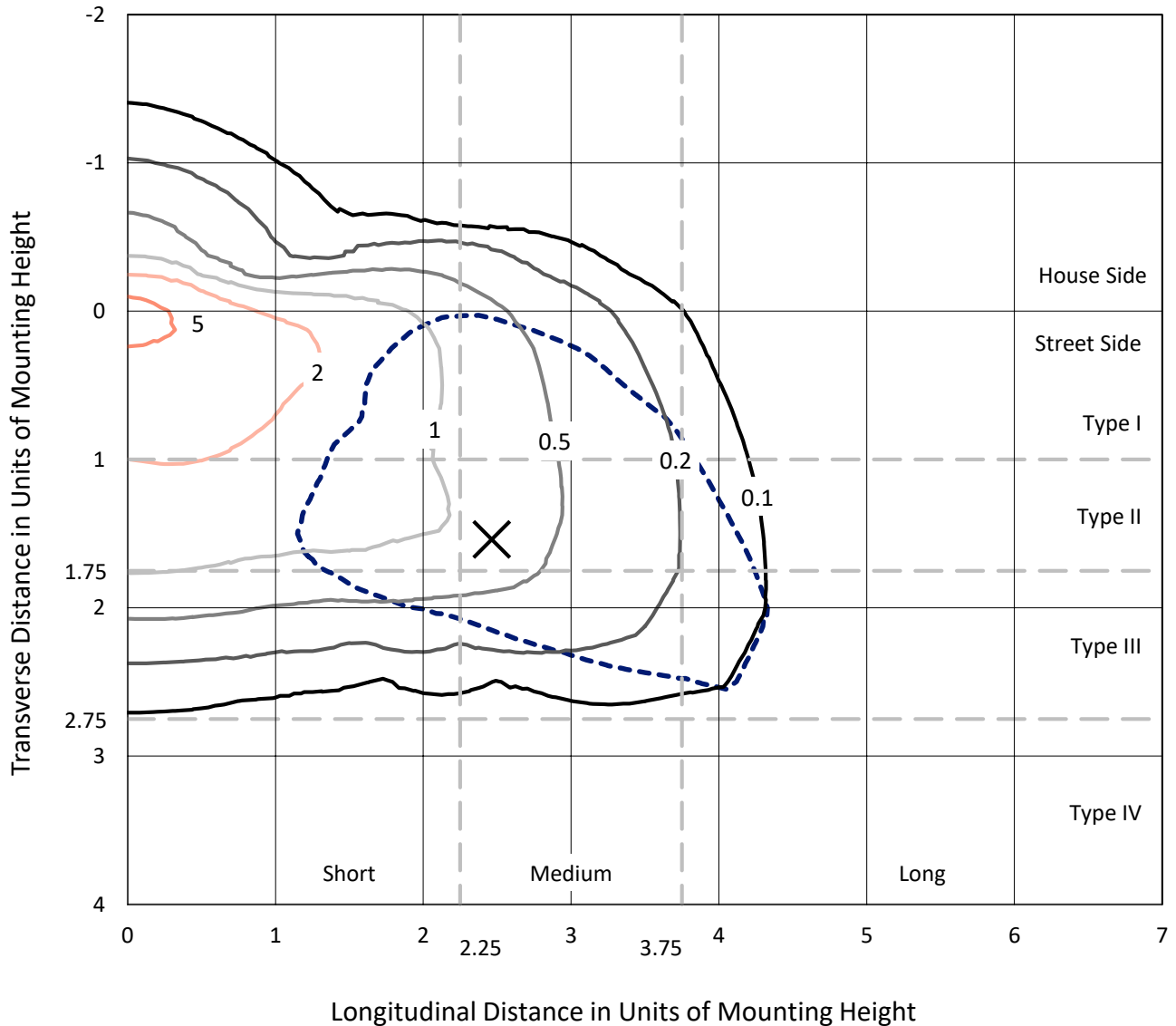
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

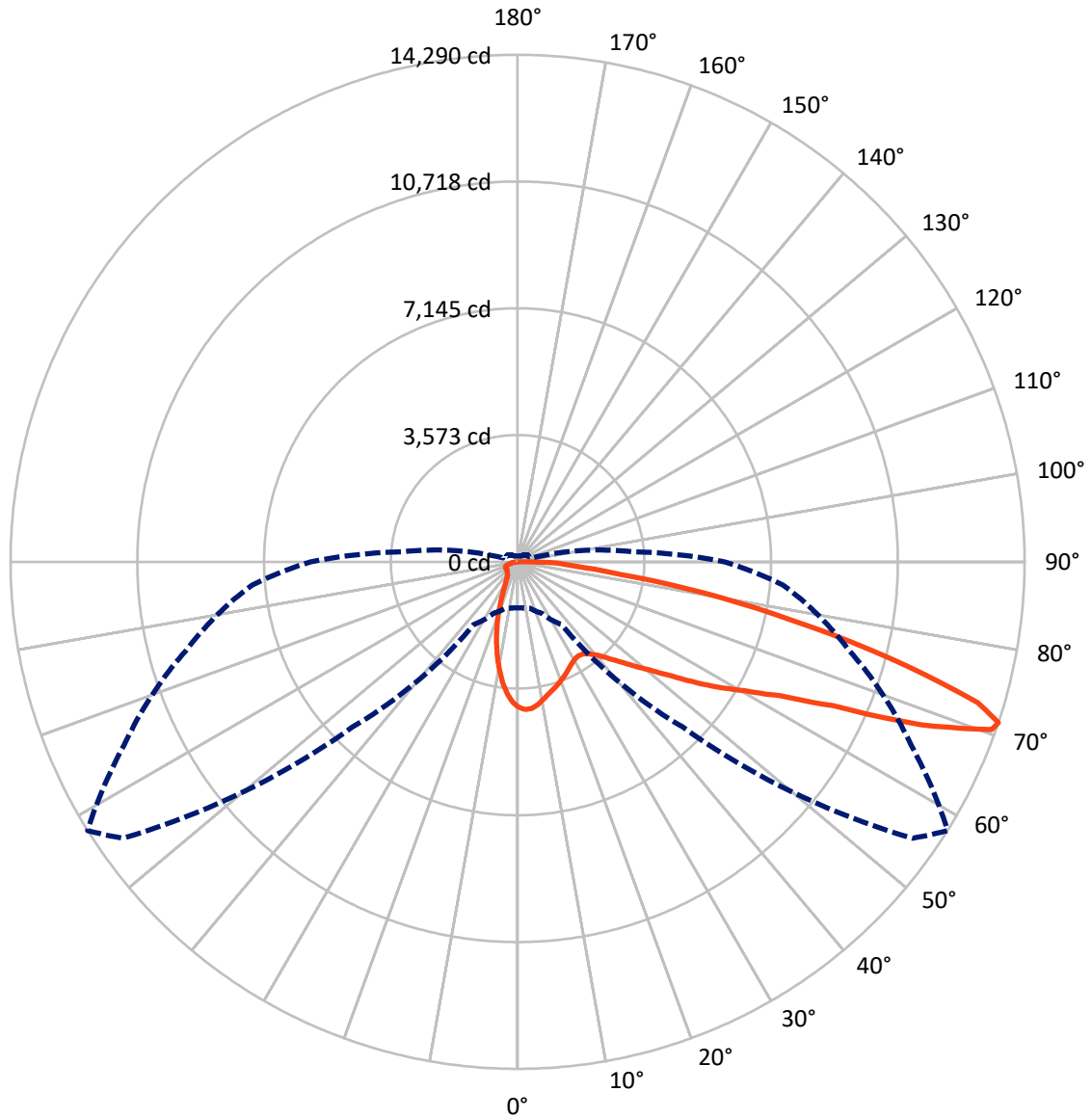
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2211.2	0.0	2211.2
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	12578.9	0.0	12578.9
	% Fixture	85.0	0.0	85.0
Total	Lumens	14790.2	0.0	14790.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	353.5	2.4
10°-20°	786.1	5.3
20°-30°	999.1	6.8
30°-40°	1272.6	8.6
40°-50°	1804.6	12.2
50°-60°	2792.7	18.9
60°-70°	3801.9	25.7
70°-80°	2536.3	17.1
80°-90°	443.4	3.0
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°	14790.2	100.0
0°-180°	14790.2	100.0

Coefficient of Utilization

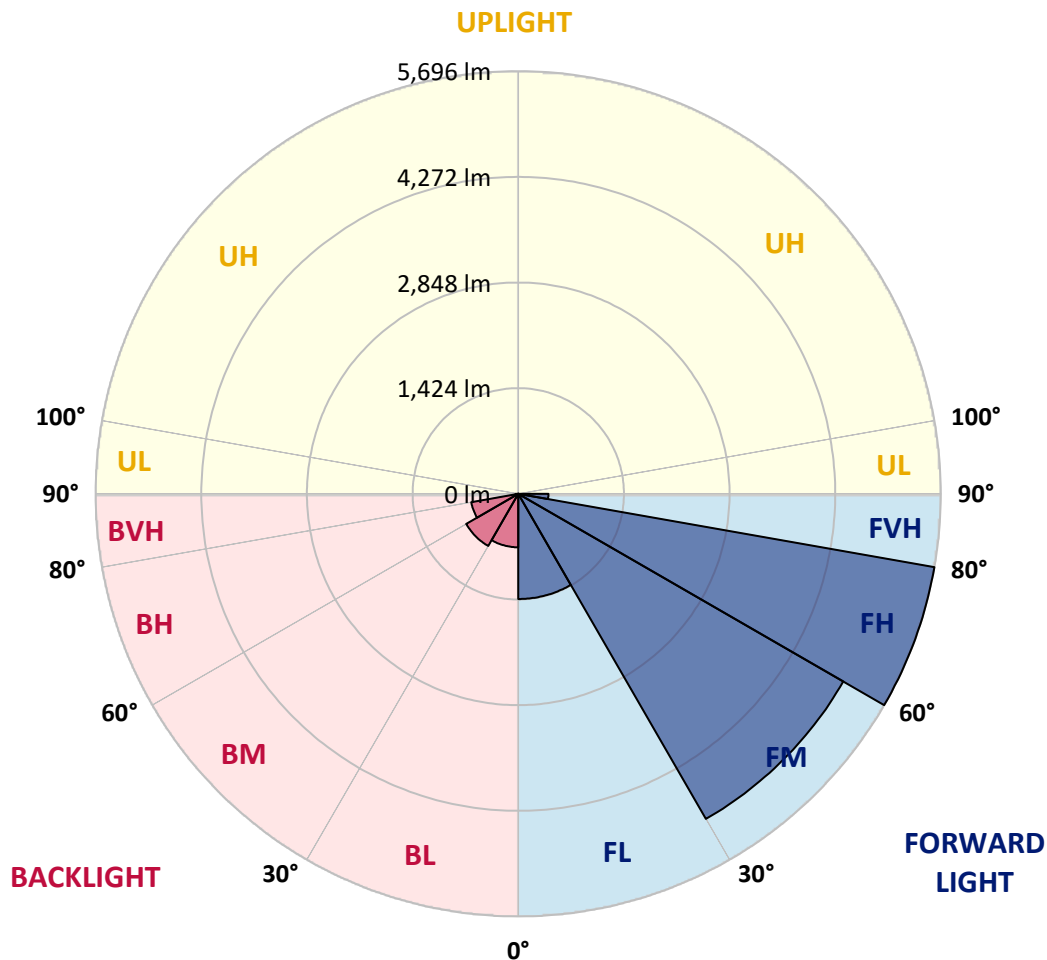


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1417.9	9.6			
FM (30°-60°)	5059.0	34.2			
FH (60°-80°)	5695.5	38.5			G3/7500
FVH (80°-90°)	406.6	2.7			G3/500
BL (0°-30°)	720.8	4.9	B2/1000		
BM (30°-60°)	810.9	5.5	B1/1000		
BH (60°-80°)	642.7	4.3	B2/1000		G2/1000
BVH (80°-90°)	36.8	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4097.9	4097.9	4097.9	4097.9	4097.9	4097.9	4097.9	4097.9	4097.9	4097.9	4097.9
2.5°	4206.6	4200.9	4203.0	4198.9	4189.1	4179.3	4164.9	4167.5	4147.3	4117.4	4080.4
5°	4127.2	4125.2	4140.6	4149.4	4156.6	4151.0	4146.8	4152.0	4122.6	4081.4	4017.0
7.5°	3960.8	3938.1	3957.8	3987.1	4014.9	4036.0	4063.9	4067.5	4049.0	4005.7	3921.2
10°	3724.3	3702.7	3731.6	3777.4	3833.0	3883.5	3939.7	3950.0	3953.6	3914.5	3811.9
12.5°	3479.1	3462.7	3491.4	3555.9	3648.1	3725.9	3815.5	3831.0	3862.9	3836.7	3710.9
15°	3259.7	3253.4	3288.5	3351.9	3458.0	3577.0	3706.3	3734.7	3788.8	3780.0	3632.1
17.5°	3070.0	3068.5	3095.3	3161.8	3279.2	3429.7	3597.6	3645.5	3725.9	3736.2	3567.2
20°	2928.9	2925.8	2944.3	2993.2	3114.3	3284.9	3480.2	3546.1	3662.0	3698.1	3500.2
22.5°	2853.1	2852.7	2853.1	2876.3	2975.3	3133.9	3365.8	3446.2	3599.7	3667.7	3426.0
25°	2840.3	2838.7	2827.4	2824.8	2881.0	3007.7	3252.4	3341.1	3540.4	3646.5	3355.4
27.5°	2873.7	2875.8	2860.9	2836.7	2848.0	2924.8	3154.0	3248.9	3493.0	3642.4	3306.5
30°	2943.3	2942.3	2929.4	2904.2	2882.0	2893.9	3084.0	3178.7	3461.1	3660.4	3273.1
32.5°	3020.1	3025.8	3023.2	3009.3	2976.3	2928.9	3062.8	3155.6	3451.8	3703.7	3258.6
35°	3112.3	3118.4	3137.0	3147.9	3109.2	3032.9	3108.2	3188.6	3478.6	3785.2	3281.8
37.5°	3199.9	3215.9	3267.9	3313.7	3280.7	3195.8	3228.7	3285.9	3561.6	3913.4	3344.2
40°	3300.8	3314.7	3399.8	3497.1	3492.0	3403.9	3423.0	3461.1	3707.8	4097.3	3457.0
42.5°	3400.3	3428.1	3551.2	3689.3	3729.0	3651.2	3681.6	3701.7	3914.0	4341.0	3653.8
45°	3532.7	3562.6	3733.6	3900.0	3992.8	3949.0	3997.4	4005.1	4173.1	4672.8	3939.7
47.5°	3733.1	3767.1	3966.5	4141.1	4282.8	4287.4	4367.3	4364.2	4496.7	5052.5	4299.8
50°	4045.3	4094.2	4257.5	4420.9	4593.0	4688.8	4795.4	4780.5	4884.6	5456.9	4714.6
52.5°	4454.4	4477.0	4598.1	4718.7	4932.5	5147.4	5300.3	5286.9	5324.5	5872.8	5185.5
55°	4878.4	4895.4	4945.4	5011.4	5298.8	5649.1	5972.7	5951.6	5856.3	6304.4	5650.7
57.5°	5259.6	5294.2	5328.6	5355.9	5667.6	6173.6	6660.5	6662.0	6433.3	6770.2	6131.4
60°	5318.9	5349.3	5577.5	5792.8	6298.8	6873.2	7396.7	7381.2	7030.4	7275.6	6667.2
62.5°	4701.7	4770.2	5151.5	5724.4	6906.7	8153.0	8335.9	8316.8	7744.4	7898.5	7291.0
65°	3369.4	3447.2	3907.3	4768.1	6612.0	9563.1	10030.9	9774.3	8718.2	8664.6	8021.6
67.5°	1943.9	1962.4	2161.7	2853.1	5034.5	9636.8	12616.6	12257.6	10230.3	9533.7	8379.2
70°	1437.4	1436.9	1484.2	1755.8	2724.3	7865.0	13846.4	14168.4	11822.2	9819.6	7873.7
71°	1299.9	1301.4	1354.5	1598.2	2157.7	6583.2	13585.2	14290.0	12241.6	9678.5	7508.0
72.5°	1111.8	1116.9	1190.6	1433.3	1815.0	4539.9	12460.0	13560.4	12440.4	9330.2	6935.6
75°	843.3	855.3	957.3	1208.1	1658.9	2302.4	9144.7	10828.4	11051.5	8232.8	5153.5
77.5°	601.8	615.1	730.5	1015.9	1577.0	1735.2	6124.2	7898.5	8132.9	5276.1	2324.6
80°	380.3	396.2	483.3	808.3	1481.7	1647.6	3848.5	5309.1	4434.8	1688.3	591.4
82.5°	223.1	235.4	299.9	528.1	1210.2	1586.8	2264.3	2942.8	1725.9	510.0	268.9
85°	129.3	135.0	187.1	336.4	878.9	1497.6	1663.6	1645.0	749.1	249.4	127.2
87.5°	60.3	67.0	110.8	175.7	487.9	1085.5	1314.8	1136.0	465.8	116.9	59.8
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°	4097.9	4097.9	4097.9	4097.9	4097.9	4097.9	4097.9	4097.9	4097.9	4097.9	4097.9
2.5°	4062.3	4053.5	4017.0	3984.5	3950.5	3906.3	3857.3	3851.1	3821.2	3826.9	3816.6
5°	3982.0	3959.8	3871.7	3791.9	3697.6	3613.1	3521.3	3479.1	3418.3	3414.2	3398.8
7.5°	3867.0	3825.9	3689.3	3537.8	3386.4	3242.2	3099.4	3005.6	2909.8	2869.2	2865.5
10°	3737.7	3667.7	3466.8	3242.6	3024.2	2813.5	2609.5	2458.5	2322.5	2258.1	2255.6
12.5°	3615.1	3511.6	3235.9	2930.9	2632.2	2359.1	2079.3	1881.0	1710.4	1653.2	1629.1
15°	3511.1	3365.2	3011.3	2621.3	2258.6	1879.4	1561.1	1352.4	1194.7	1140.1	1129.8
17.5°	3410.1	3222.6	2781.0	2308.6	1870.2	1453.4	1134.4	979.4	895.4	873.2	872.8
20°	3309.6	3075.7	2540.4	1988.7	1494.6	1087.0	872.2	802.7	774.3	771.8	767.7
22.5°	3195.8	2920.1	2287.5	1667.7	1166.4	854.7	741.3	713.6	709.9	719.2	719.2
25°	3089.1	2765.6	2030.9	1353.4	907.2	713.0	662.1	656.4	666.1	682.6	684.2
27.5°	2989.7	2616.7	1780.6	1074.2	727.0	628.0	606.9	613.6	631.1	650.2	650.7
30°	2907.7	2476.1	1537.3	846.5	614.1	564.6	561.1	574.5	593.5	608.5	612.0
32.5°	2844.4	2356.0	1302.4	680.6	540.5	517.3	520.4	531.7	543.6	551.8	557.4
35°	2815.0	2252.9	1085.5	573.9	493.5	480.7	484.8	491.0	496.1	502.3	506.9
37.5°	2820.2	2173.1	891.8	507.5	462.1	455.4	455.4	455.4	455.4	458.5	459.1
40°	2868.1	2127.3	734.2	465.2	441.0	433.8	428.1	423.0	418.8	420.9	419.8
42.5°	2990.7	2123.1	618.7	438.4	424.0	412.1	400.8	393.6	388.5	390.5	391.5
45°	3198.8	2174.6	540.9	419.4	408.0	390.0	375.6	367.9	364.2	370.9	372.0
47.5°	3468.3	2286.9	493.5	405.5	393.1	369.4	353.9	346.7	347.7	357.5	360.1
50°	3815.5	2469.3	470.9	396.7	382.8	351.8	335.9	329.8	332.8	346.7	349.8
52.5°	4196.8	2732.0	473.5	394.1	376.1	339.0	322.0	314.8	319.9	332.8	335.4
55°	4636.8	3047.9	516.3	397.8	366.3	330.8	310.7	298.3	302.4	314.3	316.4
57.5°	5125.7	3409.6	602.2	396.7	353.9	323.1	298.8	280.3	283.4	290.5	292.6
60°	5634.7	3846.5	735.7	399.8	348.3	313.7	282.8	259.6	258.6	264.8	265.9
62.5°	6245.7	4351.8	888.2	401.9	351.8	301.9	261.8	239.0	236.0	237.5	238.6
65°	6875.3	4717.6	831.0	393.6	363.2	292.1	243.1	218.9	213.3	212.3	212.8
67.5°	6894.8	4325.5	582.7	377.1	367.9	287.0	229.3	202.0	192.6	189.1	188.5
70°	6183.4	3514.2	453.8	359.6	349.3	278.7	216.4	188.1	174.1	168.4	168.0
71°	5836.1	3234.9	430.2	350.8	335.4	270.5	210.7	181.8	167.4	161.3	160.2
72.5°	5291.6	2900.0	401.3	336.9	308.6	249.4	199.9	173.1	158.2	150.9	149.4
75°	3797.5	1896.4	344.7	300.3	255.5	198.9	175.1	155.6	142.7	134.0	132.9
77.5°	1463.2	754.7	260.6	249.8	195.8	155.6	144.3	134.4	125.2	116.4	115.9
80°	452.4	337.5	190.1	188.1	141.7	115.9	112.3	109.7	106.1	96.9	94.8
82.5°	241.6	193.7	130.9	121.6	92.7	77.3	81.4	82.4	82.9	73.1	72.1
85°	115.4	102.6	73.7	69.0	54.1	43.3	49.9	54.1	54.6	44.8	41.7
87.5°	55.1	53.6	34.6	26.3	20.1	14.4	17.5	21.6	23.7	17.0	14.9
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)