

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: P383084

Luminaire Tested: **GLEON-SA4B-735-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383084
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GLEON-SA4B-735-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 3500K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17428.3 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

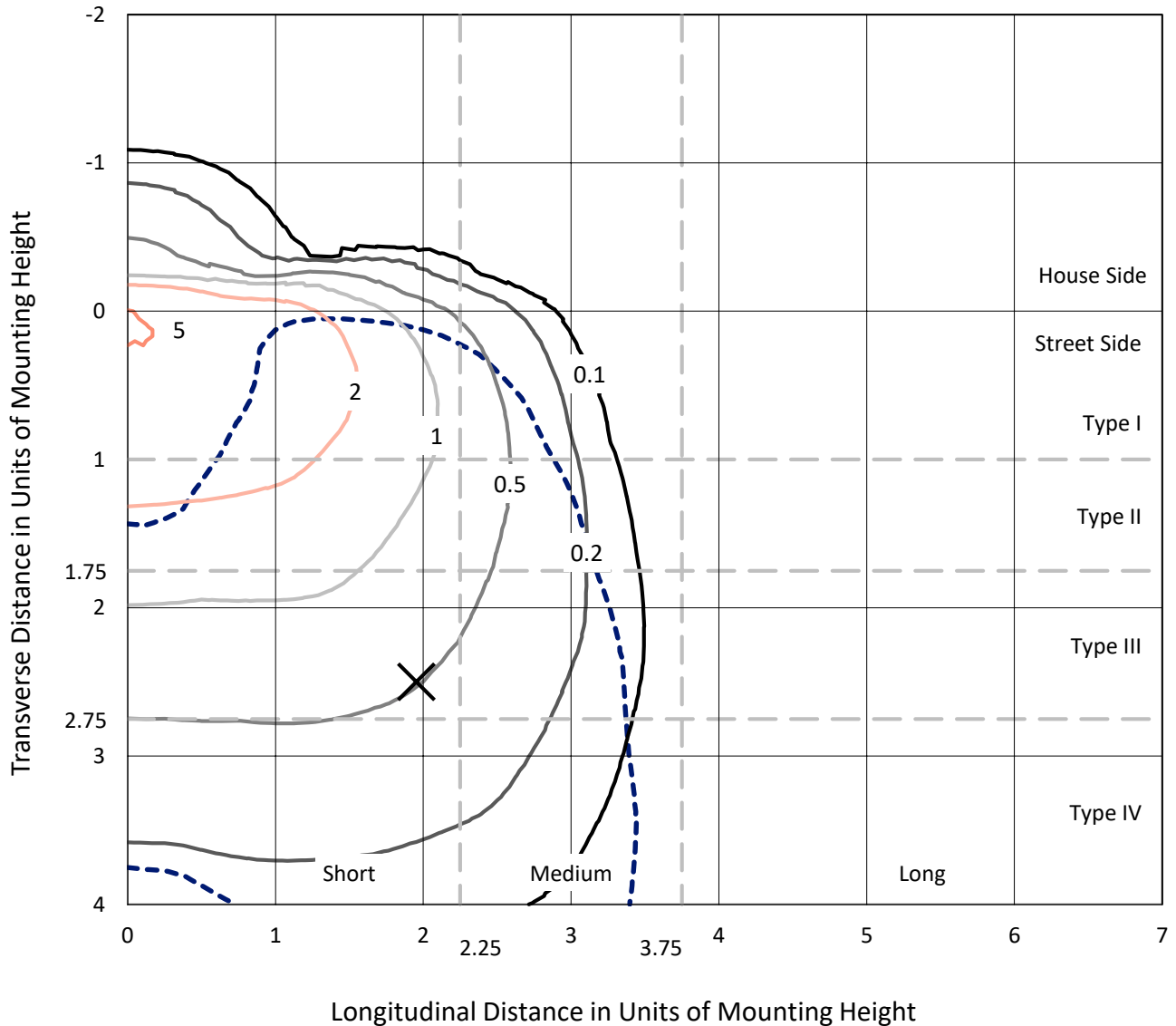
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

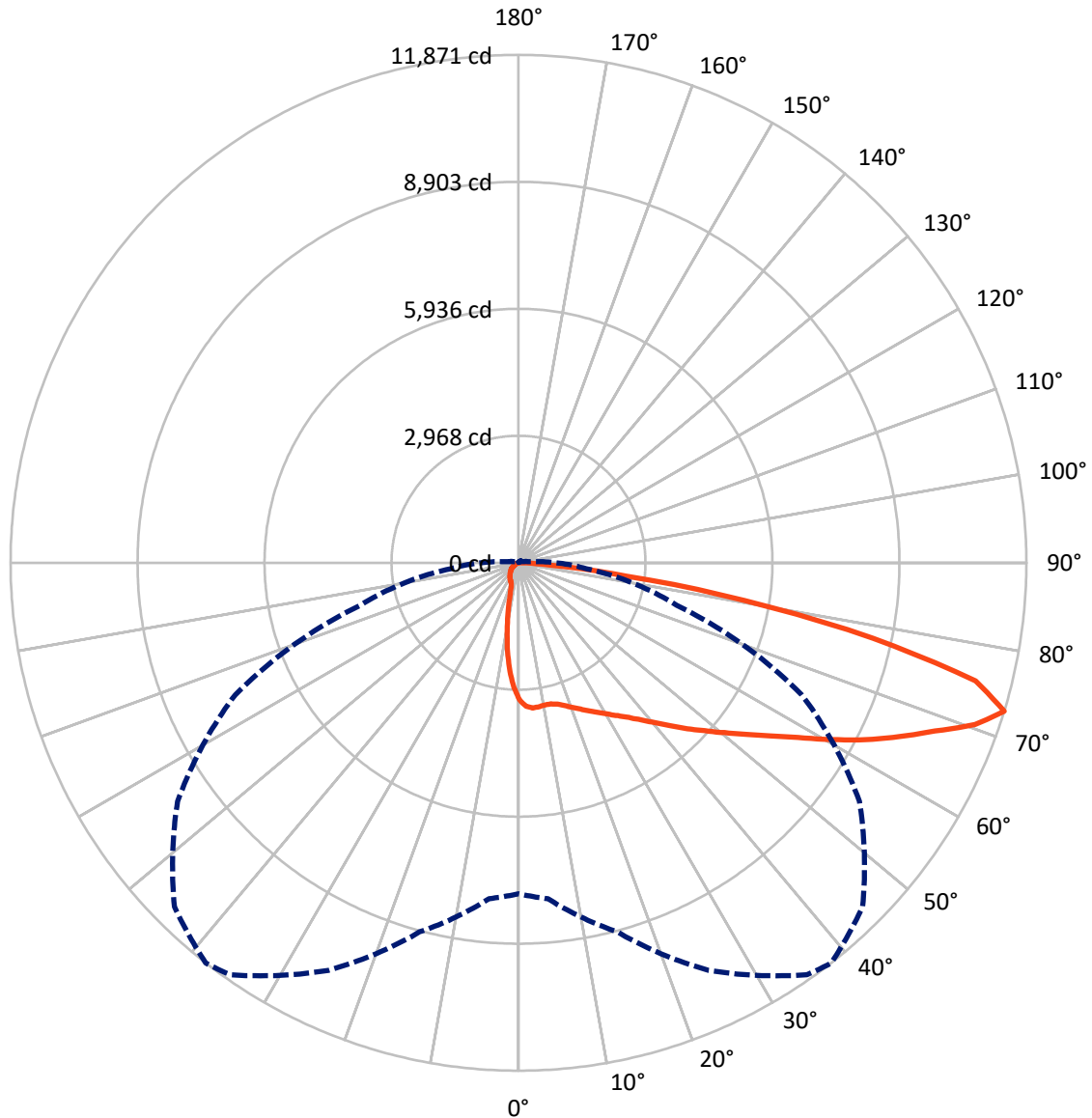
✕ Max cd
 - - - 1/2 Max cd



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 38-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1466.7	0.0	1466.7
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	15961.7	0.0	15961.7
	% Fixture	91.6	0.0	91.6
Total	Lumens	17428.3	0.0	17428.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	273.1	1.6
10°-20°	667.9	3.8
20°-30°	1062.2	6.1
30°-40°	1596.9	9.2
40°-50°	2436.2	14.0
50°-60°	3443.2	19.8
60°-70°	4318.9	24.8
70°-80°	3229.4	18.5
80°-90°	400.4	2.3
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°	17428.3	100.0
0°-180°	17428.3	100.0

Coefficient of Utilization



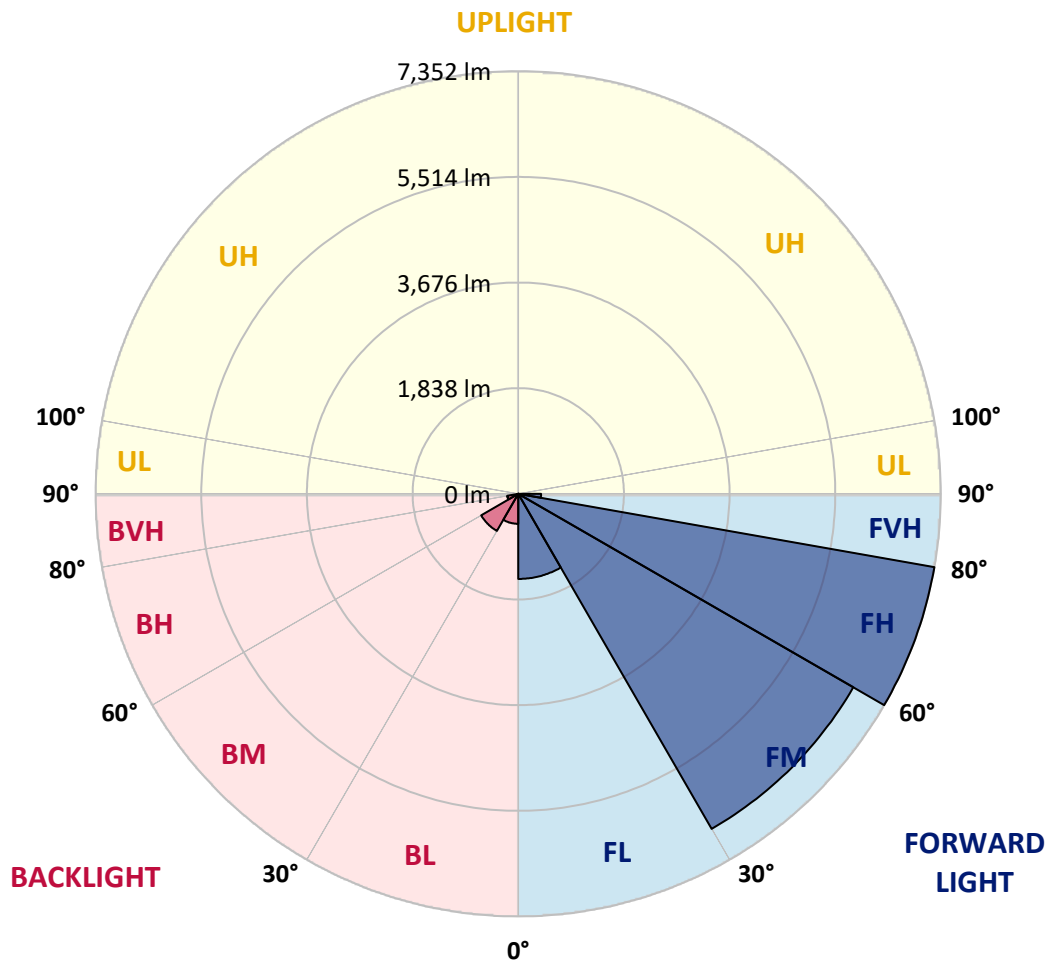
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1481.0	8.5			
FM (30°-60°)	6731.6	38.6			
FH (60°-80°)	7352.4	42.2			G3/7500
FVH (80°-90°)	396.7	2.3			G3/500
BL (0°-30°)	522.2	3.0	B2/1000		
BM (30°-60°)	744.8	4.3	B1/1000		
BH (60°-80°)	195.9	1.1	B1/500		G1/500
BVH (80°-90°)	3.7	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0
2.5°	3401.9	3402.6	3394.7	3381.6	3364.9	3356.3	3341.8	3318.6	3294.0	3249.9	3202.1
5°	3471.4	3471.4	3461.3	3443.8	3417.1	3409.1	3381.6	3344.7	3294.0	3222.4	3142.0
7.5°	3464.1	3465.5	3451.8	3433.8	3406.9	3399.7	3366.4	3325.2	3262.2	3175.4	3072.5
10°	3426.5	3430.1	3419.2	3410.6	3386.0	3378.0	3346.9	3305.6	3242.6	3150.0	3032.0
12.5°	3388.1	3391.8	3395.4	3403.3	3388.1	3385.2	3360.7	3325.9	3265.8	3169.6	3036.4
15°	3363.5	3370.8	3396.8	3427.9	3431.5	3428.7	3412.7	3380.2	3319.4	3219.5	3067.5
17.5°	3363.5	3375.1	3429.4	3488.7	3509.7	3511.9	3498.1	3452.6	3380.2	3273.1	3096.5
20°	3391.8	3407.7	3492.4	3576.3	3611.1	3611.1	3584.3	3520.6	3435.9	3321.5	3116.0
22.5°	3464.1	3485.1	3591.5	3688.6	3725.4	3717.4	3681.3	3588.6	3493.8	3376.6	3140.6
25°	3606.8	3622.6	3733.4	3831.1	3853.5	3835.5	3789.8	3671.1	3567.6	3451.1	3185.4
27.5°	3790.6	3792.7	3907.1	3989.6	3975.8	3963.5	3906.4	3774.6	3674.0	3557.5	3262.9
30°	3992.5	3992.5	4093.1	4156.1	4114.1	4103.9	4046.8	3899.8	3810.1	3702.2	3372.9
32.5°	4188.0	4196.6	4278.4	4318.2	4271.1	4261.1	4205.3	4058.4	3991.0	3923.0	3544.4
35°	4376.9	4383.4	4460.8	4482.5	4437.6	4440.5	4400.7	4276.3	4250.9	4242.3	3802.9
37.5°	4560.0	4561.4	4640.3	4654.1	4631.7	4656.2	4659.9	4549.9	4596.9	4667.1	4166.9
40°	4727.1	4728.6	4806.8	4842.3	4880.7	4912.4	4940.7	4882.1	5037.7	5200.6	4600.5
42.5°	4861.1	4876.3	4975.4	5042.7	5144.1	5204.9	5281.6	5278.7	5562.5	5807.1	5124.5
45°	4979.0	5005.1	5143.4	5261.4	5435.0	5532.1	5652.2	5746.3	6153.1	6482.4	5655.1
47.5°	5134.7	5159.3	5317.1	5510.3	5742.0	5869.3	6068.4	6271.7	6802.3	7145.4	6173.4
50°	5354.0	5343.2	5498.7	5776.0	6073.4	6240.6	6524.4	6829.1	7446.5	7723.0	6478.1
52.5°	5587.8	5583.4	5698.6	6064.7	6464.3	6659.7	7034.7	7405.2	8062.5	8121.1	6617.7
55°	5877.3	5846.2	5943.2	6394.1	6928.3	7138.2	7579.7	7975.6	8553.2	8345.5	6688.0
57.5°	6180.5	6129.2	6221.8	6761.1	7451.5	7699.8	8183.4	8531.5	8879.6	8498.9	6687.2
60°	6494.0	6433.2	6543.2	7220.0	8101.6	8388.9	8837.7	8907.2	9184.4	8576.4	6638.0
62.5°	6756.0	6719.8	6883.4	7710.7	8827.5	9109.8	9332.1	9248.8	9441.3	8636.5	6523.0
65°	7033.2	7035.4	7299.6	8283.2	9599.1	9789.4	9808.3	9691.7	9656.3	8624.2	6133.5
67.5°	7408.1	7442.9	7883.7	9060.6	10349.7	10496.6	10495.2	10171.7	9813.4	8134.8	5270.0
70°	7804.8	7886.6	8556.8	9950.1	11169.1	11318.1	11241.5	10477.1	9240.1	6577.9	3729.7
72.5°	7738.2	7880.1	8931.0	10511.1	11757.5	11871.2	11372.4	9726.5	7303.2	3823.2	1588.0
75°	5969.9	6134.2	8189.1	9955.3	11140.1	11038.0	9771.4	7568.8	3991.0	1066.9	357.5
77.5°	3153.7	3241.2	5409.7	7584.0	8686.4	8472.9	6883.4	4198.8	1216.7	264.2	160.7
80°	1651.7	1672.0	2357.5	4303.0	5361.2	5362.6	4079.3	1844.3	501.6	135.4	107.9
82.5°	884.5	901.8	1245.7	1988.3	2809.1	2546.4	1562.0	1014.7	291.7	76.8	103.5
85°	212.8	216.4	706.4	908.4	1104.5	788.9	464.0	851.9	78.9	44.9	83.9
87.5°	81.8	83.3	262.0	393.0	281.6	182.4	217.1	317.8	10.2	17.3	13.0
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°	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0	3205.0
2.5°	3173.1	3154.3	3108.0	3049.4	2997.3	2959.6	2903.2	2866.3	2841.7	2840.9	2831.5
5°	3092.8	3054.5	2954.6	2835.9	2728.0	2631.1	2516.7	2426.2	2358.9	2348.1	2324.9
7.5°	3006.7	2943.7	2790.3	2605.0	2424.0	2240.2	2026.7	1894.2	1780.6	1726.3	1720.5
10°	2953.8	2865.5	2647.6	2379.9	2096.2	1797.2	1517.9	1324.6	1184.8	1145.1	1115.3
12.5°	2943.0	2826.5	2537.6	2168.5	1763.2	1368.0	1058.9	853.4	741.9	706.4	697.0
15°	2953.8	2808.3	2445.0	1959.3	1425.9	970.6	710.8	591.3	549.3	539.3	538.5
17.5°	2960.4	2786.6	2340.0	1727.0	1098.8	693.4	544.3	509.6	503.0	502.3	503.8
20°	2959.6	2753.4	2214.8	1467.8	817.2	545.0	492.2	485.0	483.5	484.2	483.5
22.5°	2954.6	2714.3	2077.4	1200.8	617.4	487.1	469.8	465.4	464.7	464.7	464.7
25°	2964.0	2683.1	1926.1	945.3	508.8	460.4	449.5	445.8	445.2	445.2	443.7
27.5°	2998.0	2665.8	1760.3	727.4	459.6	436.4	427.8	427.0	424.9	424.1	425.6
30°	3053.1	2665.8	1578.6	566.0	429.9	411.8	405.3	403.9	403.2	402.4	403.2
32.5°	3150.0	2686.0	1380.3	470.4	401.7	384.4	380.0	382.2	380.0	380.0	380.0
35°	3325.2	2746.9	1172.5	410.4	372.1	357.5	353.2	356.1	354.6	354.6	353.9
37.5°	3580.7	2859.8	963.4	374.2	346.0	330.8	325.0	329.3	327.9	327.9	327.2
40°	3891.9	3024.1	764.3	346.7	320.6	304.7	299.7	301.8	298.2	298.2	299.7
42.5°	4276.3	3232.5	590.6	319.9	295.3	280.1	277.2	275.1	268.6	264.9	265.7
45°	4703.3	3449.6	460.4	293.9	271.5	259.2	254.8	249.0	238.1	230.9	231.6
47.5°	5084.8	3616.8	374.2	268.6	249.7	240.3	233.8	222.9	207.0	198.3	199.1
50°	5285.2	3642.2	318.5	243.2	229.4	220.0	210.6	193.9	175.1	165.7	165.1
52.5°	5336.6	3523.5	277.2	220.0	209.2	198.3	186.0	163.6	142.6	132.5	131.0
55°	5355.5	3342.6	240.3	198.3	187.4	175.1	159.2	133.9	114.4	104.2	103.5
57.5°	5293.1	3072.5	211.4	178.8	165.7	150.5	131.0	107.1	88.3	80.3	80.3
60°	5154.9	2707.1	188.9	157.8	143.3	125.9	105.6	83.3	65.9	59.3	59.3
62.5°	4879.2	2233.7	168.0	136.1	122.3	104.2	85.4	63.0	46.3	42.7	43.4
65°	4358.7	1694.4	146.9	116.5	104.2	86.2	66.6	44.9	31.1	31.1	32.6
67.5°	3554.6	1176.9	125.2	99.1	89.7	70.2	50.7	31.1	21.7	24.6	27.5
70°	2353.1	660.1	107.1	81.8	76.8	55.7	37.6	21.0	17.3	23.2	28.2
72.5°	888.1	256.9	89.7	65.9	66.6	42.7	26.7	15.9	15.9	25.3	33.3
75°	247.5	125.9	64.5	48.5	52.1	31.1	19.6	13.8	15.2	29.0	39.1
77.5°	145.5	92.7	42.0	28.2	35.5	21.7	13.0	10.9	13.0	24.6	37.6
80°	117.3	49.2	24.6	14.4	19.6	12.3	8.7	6.5	3.6	9.4	19.6
82.5°	117.3	29.7	11.6	10.2	10.2	6.5	4.4	2.9	0.7	0.0	5.0
85°	78.9	12.3	7.3	6.5	5.0	2.1	1.5	0.7	0.0	0.0	0.0
87.5°	13.0	5.0	2.9	1.5	0.7	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)