

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: McGRAW-EDISON

Report Number: P640210

Luminaire Tested: GWS-SA5D-735-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640210
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5D-735-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28619.2 lumens
Efficiency: N/A
Efficacy: 139.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

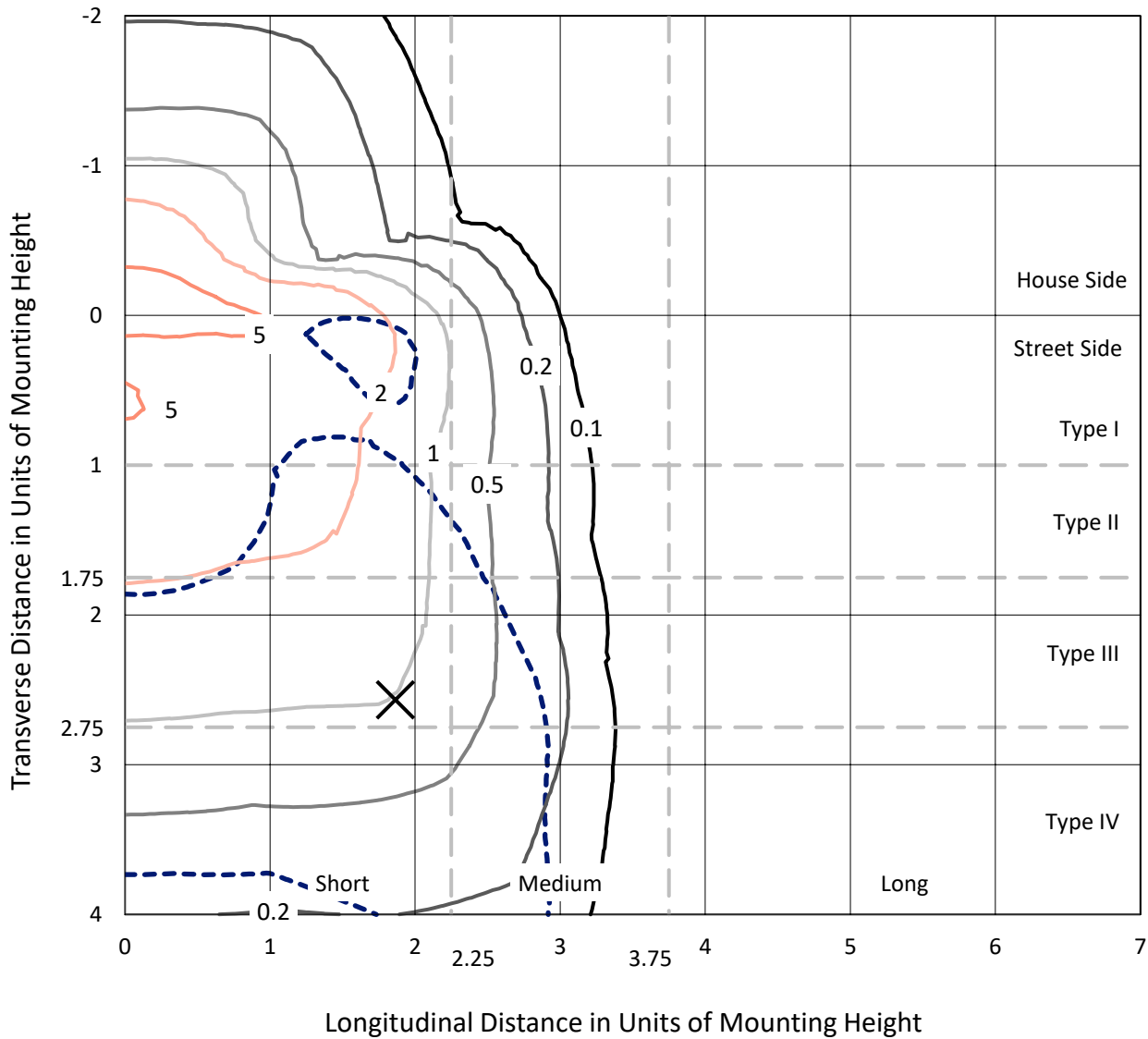
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

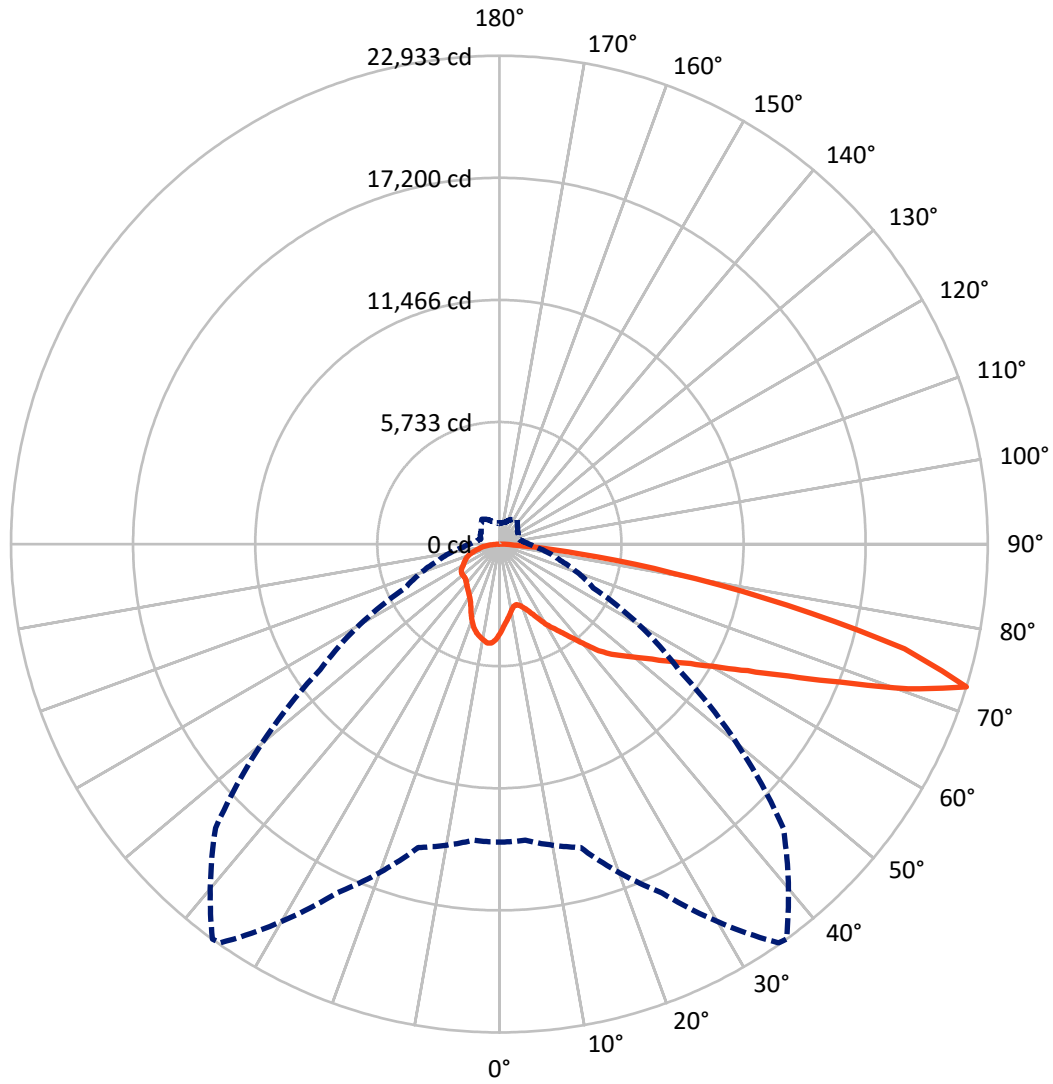
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.1 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6598.0	0.0	6598.0
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	22021.2	0.0	22021.2
	% Fixture	76.9	0.0	76.9
Total	Lumens	28619.2	0.0	28619.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.5	1.4
10°-20°	1104.6	3.9
20°-30°	1829.4	6.4
30°-40°	2739.7	9.6
40°-50°	3996.9	14.0
50°-60°	5688.9	19.9
60°-70°	7187.5	25.1
70°-80°	5121.7	17.9
80°-90°	559.1	2.0
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°	28619.2	100.0
0°-180°	28619.2	100.0

Coefficient of Utilization



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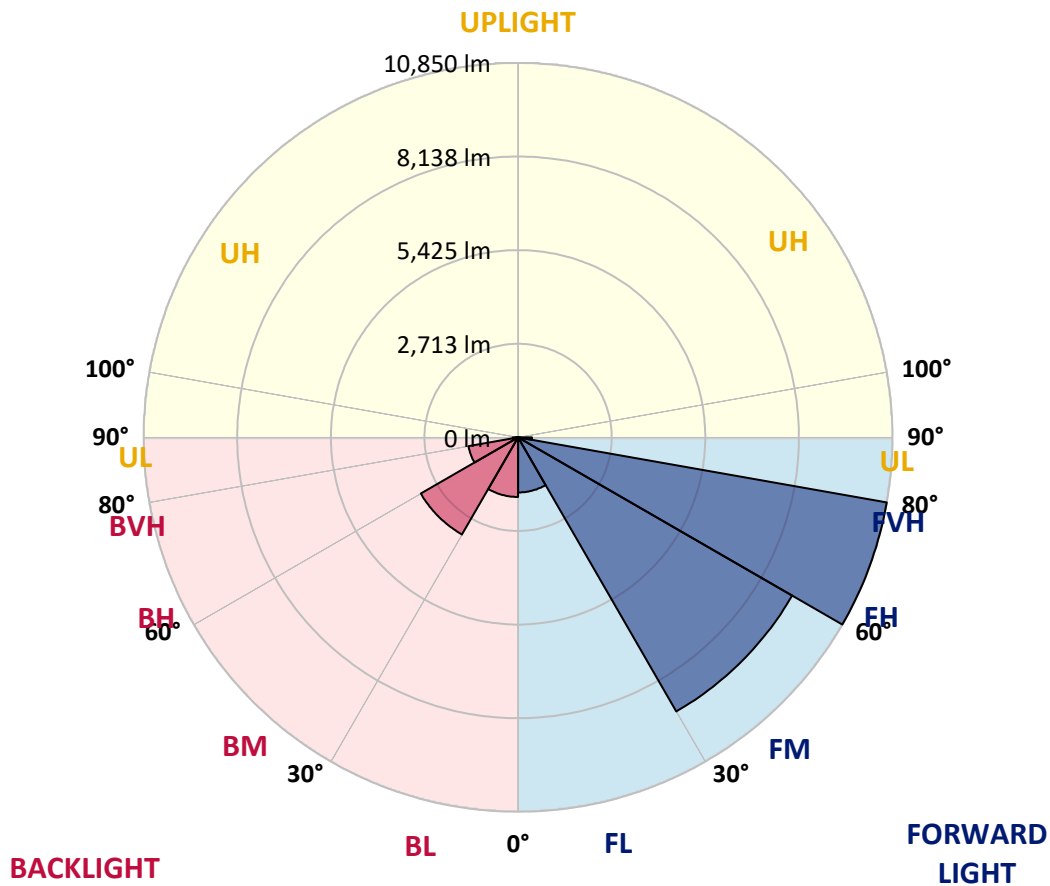
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1597.7	5.6			
FM (30°-60°)	9171.7	32.0			
FH (60°-80°)	10850.5	37.9			G4/12000
FVH (80°-90°)	401.3	1.4			G3/500
BL (0°-30°)	1727.8	6.0	B3/2500		
BM (30°-60°)	3253.7	11.4	B3/5000		
BH (60°-80°)	1458.6	5.1	B3/2500		G3/2500
BVH (80°-90°)	157.8	0.6			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4188.5	4188.5	4188.5	4188.5	4188.5	4188.5	4188.5	4188.5	4188.5	4188.5	4188.5
2.5°	3821.1	3814.7	3802.0	3840.2	3878.4	3874.2	3927.3	3978.3	4033.5	4090.8	4167.3
5°	3515.2	3511.0	3500.4	3557.7	3615.1	3612.9	3700.0	3782.9	3895.4	4018.6	4171.6
7.5°	3209.4	3198.8	3213.6	3285.8	3366.6	3375.1	3494.0	3629.9	3793.5	3978.3	4194.9
10°	2939.6	2937.5	2943.9	3024.6	3145.7	3154.2	3307.1	3496.1	3712.8	3959.2	4248.0
12.5°	2869.5	2865.3	2848.3	2888.7	2980.0	2992.7	3160.5	3392.0	3657.5	3969.8	4320.2
15°	2984.2	2973.6	2914.1	2895.0	2939.6	2950.3	3092.6	3330.4	3625.7	3988.9	4411.6
17.5°	3181.8	3175.4	3062.8	2984.2	3014.0	3022.5	3128.7	3319.8	3617.2	4027.1	4524.1
20°	3470.6	3443.0	3266.7	3147.8	3147.8	3160.5	3224.2	3366.6	3627.8	4073.9	4651.6
22.5°	3853.0	3797.7	3549.2	3387.8	3345.3	3362.3	3389.9	3483.4	3672.4	4152.4	4810.9
25°	4282.0	4231.0	3935.8	3708.5	3649.0	3655.4	3632.1	3649.0	3770.1	4260.8	5008.4
27.5°	4738.7	4704.7	4390.3	4101.5	4008.0	4008.0	3925.2	3884.8	3906.1	4384.0	5229.3
30°	5146.5	5099.7	4834.2	4517.8	4394.6	4394.6	4237.4	4150.3	4099.3	4534.8	5524.6
32.5°	5361.0	5333.4	5157.1	4915.0	4764.2	4740.8	4604.9	4502.9	4384.0	4757.8	5923.9
35°	5641.4	5635.0	5528.8	5339.8	5148.6	5114.6	5021.2	4940.4	4734.4	5036.0	6454.9
37.5°	5994.0	5983.3	5966.3	5853.8	5624.4	5618.0	5535.2	5437.5	5169.8	5437.5	7098.4
40°	6389.0	6369.9	6348.7	6346.5	6208.5	6185.1	6178.7	6068.3	5694.5	5921.7	7769.6
42.5°	6932.8	6866.9	6667.3	6756.5	6858.4	6837.2	6917.9	6752.2	6348.7	6497.3	8404.7
45°	7601.8	7440.4	7045.3	7070.8	7327.8	7370.3	7650.7	7610.3	7068.7	7162.2	9073.8
47.5°	8003.3	7863.1	7495.6	7474.4	7795.1	7848.2	8457.8	8534.3	7844.0	7962.9	9900.0
50°	8332.5	8234.8	7933.2	7962.9	8302.8	8355.9	9258.6	9422.1	8574.6	8782.8	10860.1
52.5°	8729.7	8589.5	8355.9	8496.0	8912.3	8976.1	10148.5	10324.8	9233.1	9683.4	11854.1
55°	8952.7	8895.4	8899.6	9114.1	9636.6	9723.7	11081.0	11051.2	9836.3	10454.4	12601.8
57.5°	9466.7	9445.5	9640.9	9721.6	10482.0	10594.6	12013.4	11758.5	10384.3	11051.2	12960.7
60°	10373.7	10320.6	10490.5	10613.7	11527.0	11686.3	13054.2	12450.9	10756.0	11495.1	12839.6
62.5°	11648.1	11582.2	11588.6	11784.0	12926.7	13094.5	14211.8	13028.7	10870.7	11563.1	12072.9
65°	13232.6	13137.0	13028.7	13294.2	14785.2	14925.4	15471.3	13449.2	10596.7	10908.9	10471.4
67.5°	14904.2	14825.6	14698.2	15254.6	17191.7	17276.7	16883.8	13413.1	9728.0	9158.7	7344.8
70°	15001.9	15021.0	15624.2	17637.8	20333.1	20354.4	18219.8	12686.7	7878.0	5936.6	3659.7
72.5°	13995.1	13963.2	14749.1	18073.2	22860.7	22932.9	18850.6	10278.1	4868.2	2960.9	1716.2
75°	11367.7	11422.9	12249.2	15813.3	19594.0	19657.7	15367.2	6059.8	2313.0	1448.6	1098.1
77.5°	4893.7	5201.7	6830.8	11140.4	14033.3	13835.8	7920.4	2455.4	1234.0	1032.3	841.1
80°	1412.5	1533.5	2434.1	5297.3	8409.0	8260.3	3135.0	919.7	860.2	775.3	603.2
82.5°	456.7	505.5	892.1	2109.1	3768.0	3763.7	1189.4	543.7	562.9	526.8	388.7
85°	127.4	146.6	274.0	639.3	1166.1	1142.7	344.1	257.0	299.5	303.7	193.3
87.5°	0.0	0.0	2.1	4.2	4.2	4.2	8.5	38.2	87.1	110.4	78.6
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°	4188.5	4188.5	4188.5	4188.5	4188.5	4188.5	4188.5	4188.5	4188.5	4188.5	4188.5
2.5°	4214.0	4207.7	4294.7	4362.7	4426.4	4468.9	4481.7	4490.2	4507.1	4515.6	4507.1
5°	4243.8	4275.6	4420.1	4526.3	4611.2	4662.2	4664.3	4660.1	4672.8	4662.2	4655.8
7.5°	4307.5	4369.1	4551.8	4664.3	4719.6	4721.7	4670.7	4611.2	4581.5	4556.0	4547.5
10°	4392.5	4483.8	4683.4	4757.8	4740.8	4662.2	4549.6	4456.2	4403.1	4364.8	4356.3
12.5°	4509.3	4611.2	4800.3	4798.1	4691.9	4551.8	4420.1	4307.5	4231.0	4186.4	4171.6
15°	4619.7	4749.3	4885.2	4785.4	4617.6	4447.7	4277.8	4127.0	4025.0	3954.9	3942.2
17.5°	4755.7	4893.7	4946.8	4745.0	4524.1	4305.4	4078.1	3880.6	3742.5	3659.7	3653.3
20°	4912.8	5036.0	4976.6	4674.9	4403.1	4116.3	3808.4	3587.5	3438.8	3358.1	3364.4
22.5°	5095.5	5184.7	4985.1	4579.4	4235.3	3848.7	3504.6	3292.2	3192.4	3149.9	3152.0
25°	5290.9	5348.3	4970.2	4449.8	3978.3	3521.6	3192.4	3094.7	3086.2	3075.6	3079.8
27.5°	5522.4	5509.7	4925.6	4267.1	3632.1	3141.4	2973.6	2999.1	3033.1	3028.8	3033.1
30°	5832.5	5711.5	4868.2	4014.4	3220.0	2822.8	2844.0	2916.3	2960.9	2965.1	2977.9
32.5°	6187.2	5934.5	4776.9	3670.3	2827.1	2644.4	2723.0	2810.1	2863.2	2873.8	2890.8
35°	6609.9	6189.4	4615.5	3241.2	2544.6	2538.2	2610.4	2669.9	2727.2	2731.5	2731.5
37.5°	7096.3	6444.2	4358.5	2767.6	2370.4	2446.9	2514.8	2527.6	2542.4	2529.7	2536.1
40°	7542.4	6690.6	3993.1	2336.4	2228.1	2366.1	2423.5	2381.0	2334.3	2302.4	2308.8
42.5°	7916.2	6858.4	3508.9	2034.8	2083.7	2293.9	2338.5	2251.5	2160.1	2100.6	2109.1
45°	8336.7	7013.5	2939.6	1830.9	1960.5	2243.0	2272.7	2160.1	2043.3	1954.1	1941.3
47.5°	8916.6	7330.0	2434.1	1688.6	1873.4	2215.3	2264.2	2111.3	1958.3	1824.5	1809.7
50°	9632.4	7778.1	2011.4	1595.1	1833.0	2200.5	2262.1	2058.2	1875.5	1718.3	1707.7
52.5°	10414.0	8215.7	1699.2	1522.9	1792.7	2155.9	2251.5	1998.7	1788.4	1618.5	1605.8
55°	10934.4	8387.7	1488.9	1454.9	1726.8	2085.8	2209.0	1941.3	1656.7	1501.7	1482.6
57.5°	11087.3	8166.8	1342.4	1393.4	1641.9	1988.1	2128.3	1820.3	1576.0	1452.8	1438.0
60°	10824.0	7610.3	1251.0	1342.4	1548.4	1862.8	1988.1	1750.2	1512.3	1401.8	1391.2
62.5°	10080.6	6752.2	1180.9	1289.3	1452.8	1731.1	1898.9	1665.2	1442.2	1355.1	1340.3
65°	8585.2	5537.3	1123.6	1234.0	1361.5	1605.8	1801.2	1580.3	1365.7	1299.9	1282.9
67.5°	6004.6	3889.1	1062.0	1168.2	1270.2	1484.7	1699.2	1501.7	1287.2	1238.3	1221.3
70°	2935.4	2062.4	987.7	1091.7	1172.5	1361.5	1597.3	1406.1	1183.1	1155.5	1132.1
72.5°	1397.6	1153.3	900.6	987.7	1038.6	1197.9	1427.3	1268.0	1059.9	1000.4	960.1
75°	936.7	819.9	785.9	864.5	877.2	1004.7	1223.4	1093.9	934.6	866.6	832.6
77.5°	709.4	626.6	660.6	730.7	705.2	826.2	1006.8	974.9	843.2	781.6	764.6
80°	499.1	456.7	524.6	567.1	548.0	703.0	907.0	834.7	694.6	626.6	613.8
82.5°	314.4	305.9	386.6	392.9	399.3	556.5	745.5	656.3	539.5	443.9	412.1
85°	157.2	174.2	231.5	231.5	229.4	286.7	424.8	369.6	291.0	231.5	225.1
87.5°	53.1	74.3	99.8	80.7	61.6	48.9	55.2	68.0	72.2	70.1	70.1
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)