

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: P635421

Luminaire Tested: GWS-SA3D-760-U-T3R-W-GRSWH

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P635421  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-17)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3D-760-U-T3R-W-GRSWH  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH  
Light Source: (48) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

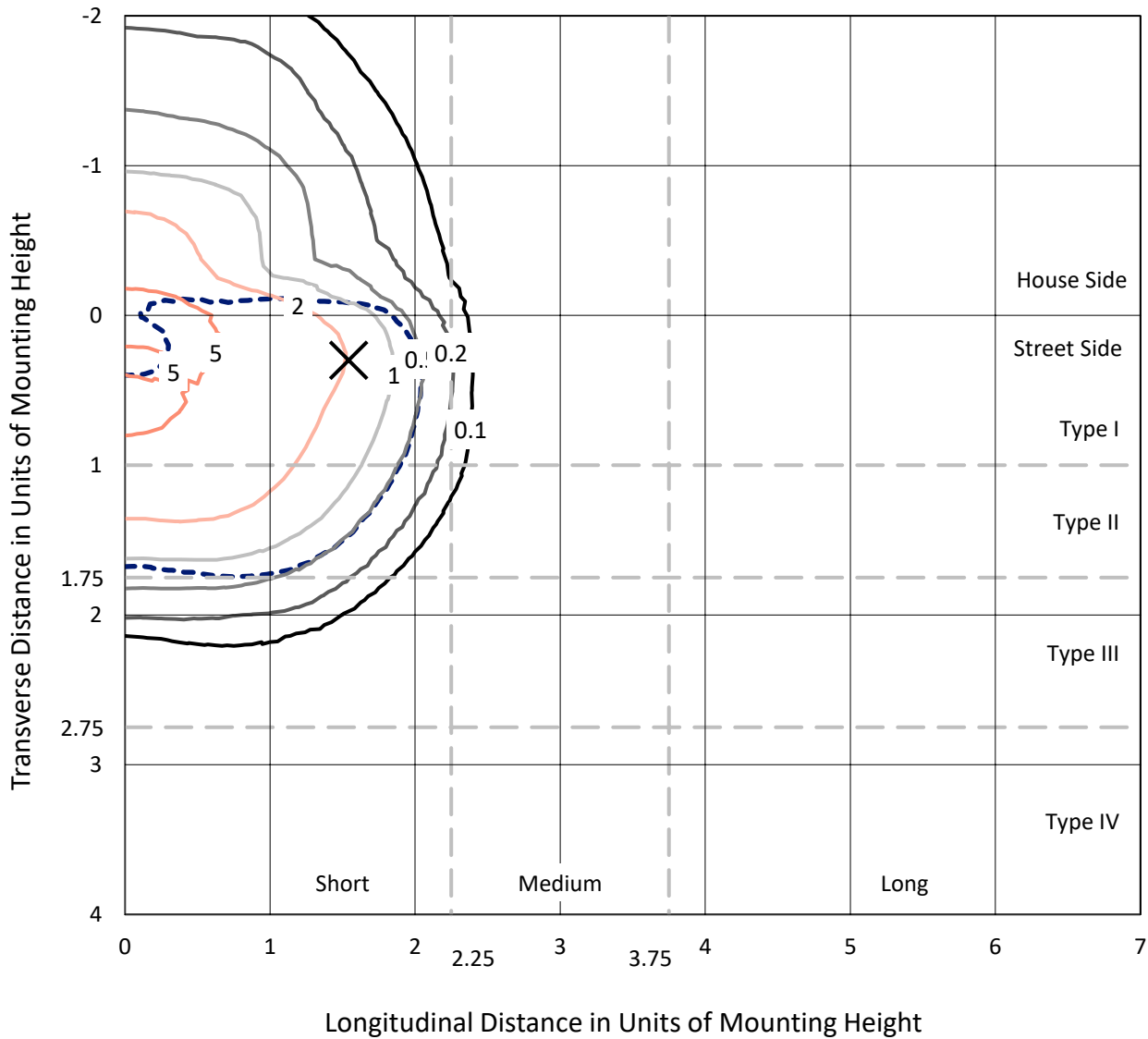
Lumens per Lamp: N/A  
Luminaire Lumens: 15566.2 lumens  
Efficiency: N/A  
Efficacy: 128.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 120.8  
Input Voltage (V): 120  
Input Current (Ain): 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

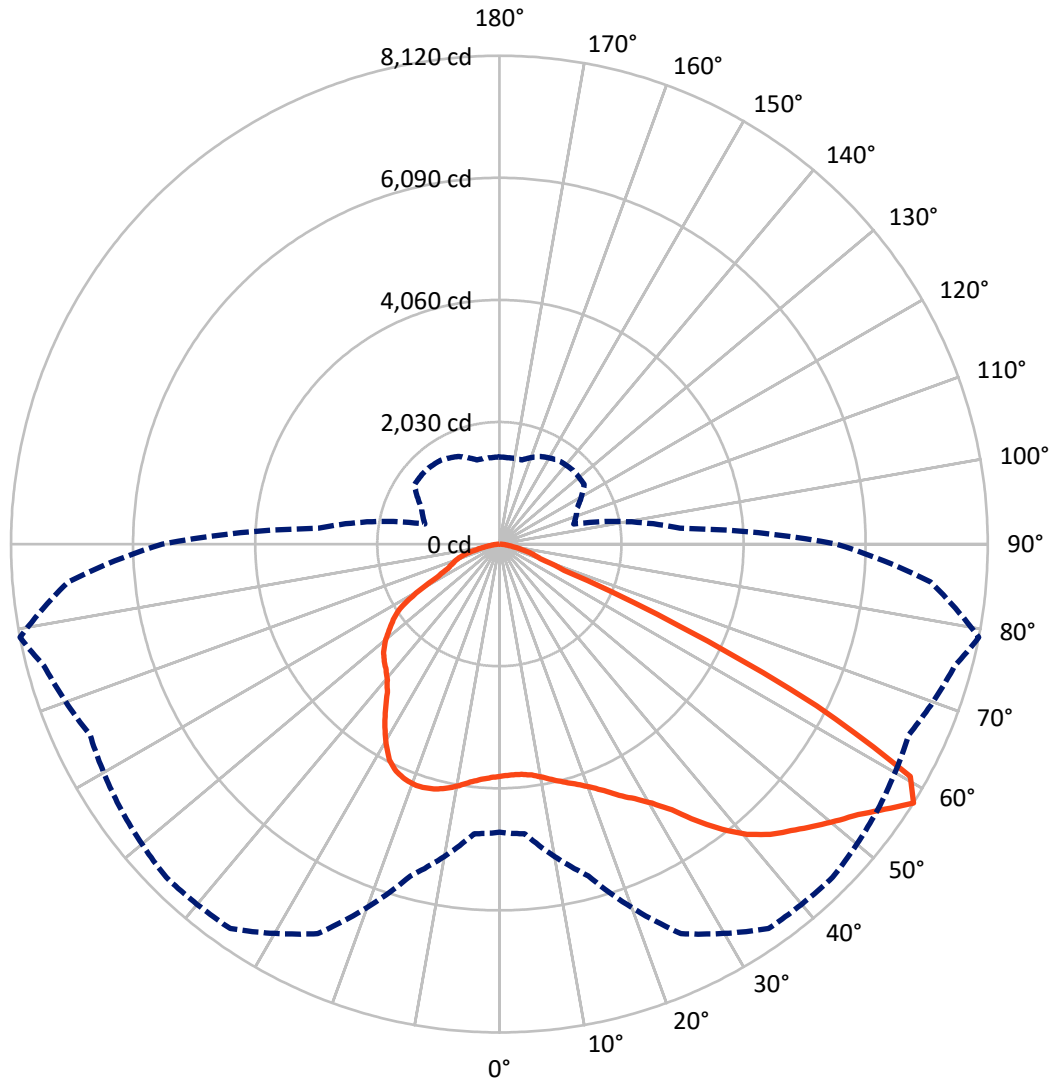
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4627.1	0.0	4627.1
	% Fixture	29.7	0.0	29.7
<b>Street Side</b>	Lumens	10939.1	0.0	10939.1
	% Fixture	70.3	0.0	70.3
<b>Total</b>	Lumens	15566.2	0.0	15566.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	357.3	2.3
10°-20°	992.8	6.4
20°-30°	1682.9	10.8
30°-40°	2575.8	16.5
40°-50°	3434.6	22.1
50°-60°	3966.7	25.5
60°-70°	2061.2	13.2
70°-80°	438.2	2.8
80°-90°	56.8	0.4
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°	15566.2	100.0
0°-180°	15566.2	100.0

**Coefficient of Utilization**



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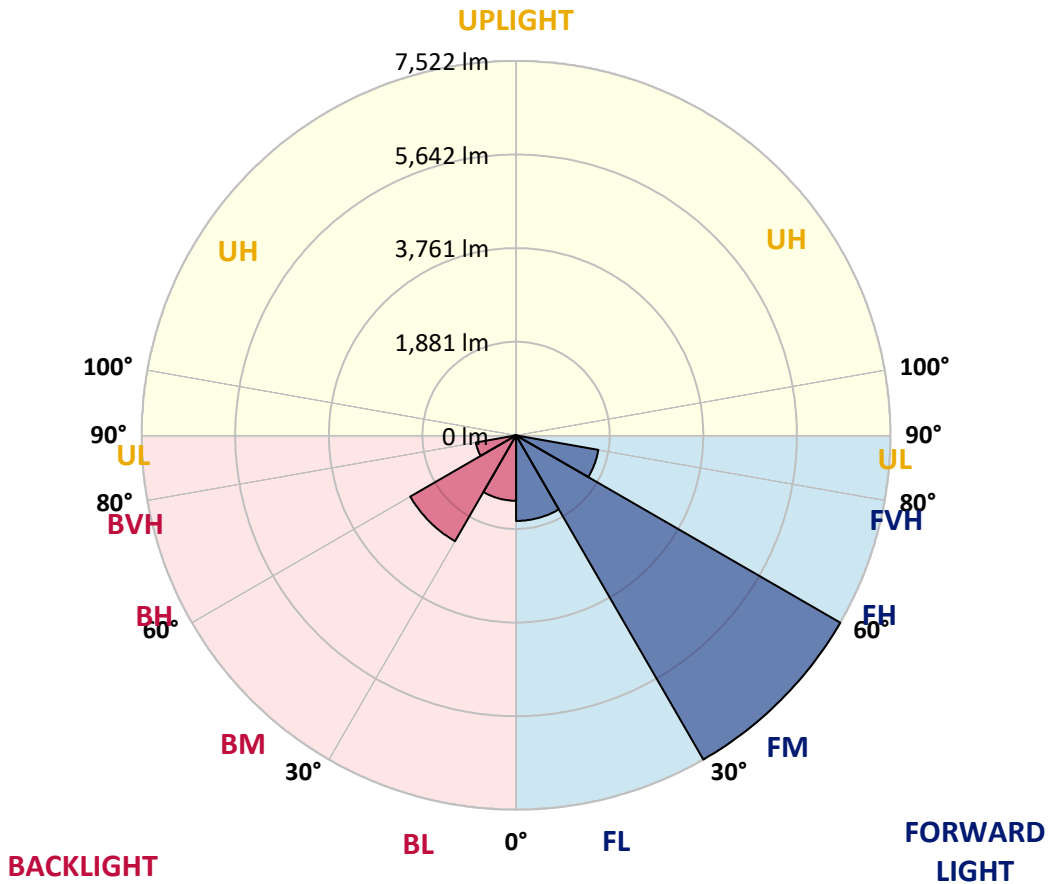
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1718.9	11.0			
FM (30°-60°)	7522.0	48.3			
FH (60°-80°)	1678.4	10.8			G1/1800
FVH (80°-90°)	19.8	0.1			G1/100
BL (0°-30°)	1314.0	8.4	B3/2500		
BM (30°-60°)	2455.1	15.8	B2/2500		
BH (60°-80°)	821.0	5.3	B2/1000		G2/1000
BVH (80°-90°)	37.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	3857.7	3857.7	3857.7	3857.7	3857.7	3857.7	3857.7	3857.7	3857.7	3857.7	3857.7
2.5°	3682.0	3674.4	3676.9	3687.1	3725.3	3753.3	3782.6	3809.3	3834.8	3842.4	3848.8
5°	3550.9	3536.9	3540.8	3557.3	3601.8	3648.9	3701.1	3764.8	3825.8	3846.2	3872.9
7.5°	3458.0	3455.5	3461.8	3487.3	3534.4	3578.9	3646.4	3736.8	3842.4	3876.8	3923.8
10°	3334.6	3329.5	3354.9	3407.1	3484.8	3556.0	3636.2	3743.1	3890.8	3941.7	4014.2
12.5°	3236.6	3234.0	3260.8	3333.3	3432.6	3545.8	3656.6	3776.2	3955.7	4025.7	4114.8
15°	3293.8	3282.4	3283.7	3334.6	3423.7	3557.3	3707.5	3836.0	4020.6	4109.7	4224.2
17.5°	3460.6	3440.2	3424.9	3433.8	3484.8	3623.5	3785.1	3916.2	4095.7	4200.0	4340.0
20°	3690.9	3679.5	3637.5	3609.5	3620.9	3743.1	3907.3	4029.5	4193.7	4310.8	4460.9
22.5°	4000.2	3972.2	3914.9	3870.4	3836.0	3931.5	4082.9	4188.6	4329.8	4452.0	4608.6
25°	4383.3	4342.6	4252.2	4182.2	4108.4	4206.4	4341.3	4421.5	4516.9	4630.2	4779.1
27.5°	4774.0	4739.7	4639.1	4544.9	4453.3	4514.4	4674.8	4720.6	4710.4	4793.1	4920.4
30°	5190.2	5146.9	5051.5	4949.7	4831.3	4870.8	5014.6	5037.5	4929.3	4998.0	5084.6
32.5°	5629.3	5587.3	5504.6	5386.2	5252.6	5267.9	5307.3	5328.9	5225.9	5265.3	5331.5
35°	6076.0	6036.6	5952.6	5835.5	5737.5	5644.6	5545.3	5631.9	5572.0	5648.4	5643.3
37.5°	6484.6	6445.1	6393.0	6302.6	6134.6	5951.3	5722.2	5829.1	5922.0	6018.8	6002.2
40°	6760.8	6734.0	6746.8	6732.8	6516.4	6153.7	5808.8	5925.9	6179.1	6344.6	6335.7
42.5°	6998.8	6972.1	7045.9	7099.3	6844.8	6340.8	5850.8	5962.8	6343.3	6601.7	6589.0
45°	7104.4	7096.8	7219.0	7388.2	7145.1	6539.3	5959.0	6039.1	6468.0	6799.0	6750.6
47.5°	6978.4	7005.1	7245.7	7532.1	7394.6	6774.8	6180.4	6200.8	6631.0	7012.8	6876.6
50°	6727.7	6786.2	7110.8	7535.9	7576.6	7040.8	6487.1	6436.2	6849.9	7240.6	6942.8
52.5°	6362.4	6423.5	6953.0	7506.6	7681.0	7348.8	6895.7	6823.1	7126.1	7468.4	6954.2
55°	5523.7	5606.4	6591.5	7440.4	7782.8	7628.8	7356.4	7208.8	7482.4	7781.5	7067.5
57.5°	4791.9	4835.1	5710.8	7146.4	7803.1	7835.0	7684.8	7509.1	7836.2	8120.1	7194.8
60°	3516.6	3526.8	4314.6	5913.1	7178.2	7715.3	7658.1	7397.1	7668.2	7849.0	6611.9
62.5°	1986.7	1988.0	2616.7	3946.8	5362.0	6288.6	6324.2	6093.9	5866.0	5919.5	4602.2
65°	745.8	815.8	1195.1	1939.7	3091.5	3712.6	3860.2	3913.7	3534.4	3298.9	2467.8
67.5°	498.9	515.5	697.5	997.8	1375.8	1588.4	1776.7	1781.8	1303.3	1162.0	972.4
70°	380.5	397.1	548.5	714.0	697.5	644.0	696.2	677.1	700.0	719.1	739.5
72.5°	283.8	300.4	425.1	504.0	418.7	412.4	467.1	519.3	567.6	588.0	619.8
75°	188.4	201.1	286.4	269.8	231.6	273.6	341.1	393.3	421.3	445.5	469.6
77.5°	119.6	128.5	152.7	123.5	128.5	160.4	198.5	245.6	272.4	296.5	309.3
80°	54.7	53.5	52.2	58.5	72.5	94.2	119.6	147.6	168.0	178.2	185.8
82.5°	21.6	24.2	26.7	31.8	39.5	50.9	67.5	86.5	103.1	105.6	112.0
85°	8.9	10.2	11.5	14.0	17.8	22.9	28.0	39.5	49.6	53.5	57.3
87.5°	0.0	0.0	0.0	0.0	1.3	2.5	3.8	6.4	11.5	12.7	14.0
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°	3857.7	3857.7	3857.7	3857.7	3857.7	3857.7	3857.7	3857.7	3857.7	3857.7	3857.7
2.5°	3883.1	3866.6	3894.6	3913.7	3931.5	3912.4	3906.0	3889.5	3886.9	3886.9	3895.8
5°	3918.8	3907.3	3936.6	3948.0	3946.8	3904.8	3879.3	3846.2	3829.7	3829.7	3832.2
7.5°	3982.4	3976.0	3992.6	3974.8	3934.0	3848.8	3764.8	3694.8	3647.7	3623.5	3631.1
10°	4088.0	4080.4	4066.4	4000.2	3883.1	3706.2	3534.4	3407.1	3330.8	3287.5	3290.0
12.5°	4191.1	4178.4	4128.8	3982.4	3741.8	3460.6	3235.3	3092.7	3008.7	2957.8	2946.4
15°	4304.4	4271.3	4164.4	3890.8	3511.5	3160.2	2924.7	2770.7	2680.4	2649.8	2648.6
17.5°	4412.6	4354.0	4160.6	3727.8	3235.3	2845.8	2609.1	2513.7	2498.4	2512.4	2516.2
20°	4522.0	4427.9	4118.6	3502.6	2906.9	2532.7	2410.6	2450.0	2507.3	2545.5	2554.4
22.5°	4635.3	4488.9	4023.1	3212.4	2560.7	2321.5	2372.4	2458.9	2530.2	2581.1	2586.2
25°	4762.6	4546.2	3880.6	2857.3	2283.3	2262.9	2363.5	2455.1	2531.5	2590.0	2600.2
27.5°	4835.1	4547.5	3680.8	2492.0	2156.0	2240.0	2341.8	2428.4	2504.7	2568.4	2579.8
30°	4906.4	4513.1	3363.8	2195.5	2119.1	2213.3	2304.9	2385.1	2457.7	2520.0	2534.0
32.5°	5006.9	4481.3	2998.6	2024.9	2097.5	2187.8	2262.9	2334.2	2390.2	2418.2	2425.8
35°	5131.7	4440.6	2610.4	1951.1	2083.5	2167.5	2233.7	2271.8	2199.3	2184.0	2200.6
37.5°	5306.0	4402.4	2223.5	1919.3	2074.6	2159.8	2218.4	2120.4	2031.3	1995.7	2008.4
40°	5494.4	4380.8	1961.3	1893.8	2078.4	2167.5	2154.7	2009.7	1881.1	1806.0	1803.5
42.5°	5654.8	4347.7	1793.3	1877.3	2088.6	2196.7	2068.2	1911.7	1720.7	1676.2	1677.5
45°	5763.0	4263.7	1704.2	1859.5	2097.5	2203.1	2027.5	1776.7	1640.6	1612.6	1611.3
47.5°	5807.5	4110.9	1646.9	1831.5	2096.2	2150.9	1944.7	1720.7	1584.6	1576.9	1582.0
50°	5778.2	3860.2	1588.4	1776.7	2065.7	2096.2	1849.3	1671.1	1546.4	1588.4	1618.9
52.5°	5670.0	3535.7	1518.4	1701.6	2010.9	2033.8	1800.9	1640.6	1518.4	1574.4	1598.6
55°	5642.0	3272.2	1429.3	1603.6	1929.5	1923.1	1750.0	1625.3	1499.3	1477.6	1481.5
57.5°	5605.1	3015.1	1281.6	1428.0	1723.3	1733.5	1701.6	1607.5	1449.6	1443.3	1449.6
60°	4869.5	2311.3	1142.9	1232.0	1415.3	1470.0	1646.9	1574.4	1369.5	1342.7	1341.5
62.5°	3180.6	1400.0	1016.9	1074.2	1153.1	1216.7	1501.8	1478.9	1281.6	1265.1	1276.6
65°	1710.6	997.8	925.3	959.6	1002.9	1051.3	1244.7	1317.3	1158.2	1099.6	1100.9
67.5°	874.4	848.9	856.6	880.7	913.8	938.0	1004.2	1067.8	987.6	938.0	936.7
70°	748.4	768.7	780.2	794.2	815.8	812.0	818.4	829.8	823.5	799.3	798.0
72.5°	637.6	669.5	672.0	674.6	682.2	664.4	652.9	633.8	635.1	638.9	640.2
75°	484.9	515.5	523.1	519.3	526.9	504.0	488.7	469.6	446.7	442.9	445.5
77.5°	315.6	339.8	351.3	348.7	352.5	334.7	327.1	306.7	280.0	269.8	269.8
80°	190.9	204.9	213.8	216.4	220.2	207.5	194.7	176.9	165.5	154.0	154.0
82.5°	115.8	124.7	131.1	131.1	134.9	120.9	110.7	98.0	92.9	82.7	82.7
85°	58.5	64.9	67.5	66.2	63.6	52.2	48.4	42.0	39.5	34.4	34.4
87.5°	14.0	17.8	17.8	12.7	12.7	6.4	3.8	1.3	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)