

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: P634890

Luminaire Tested: GWS-SA3C-760-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P634890  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-45)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA3C-760-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (48) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

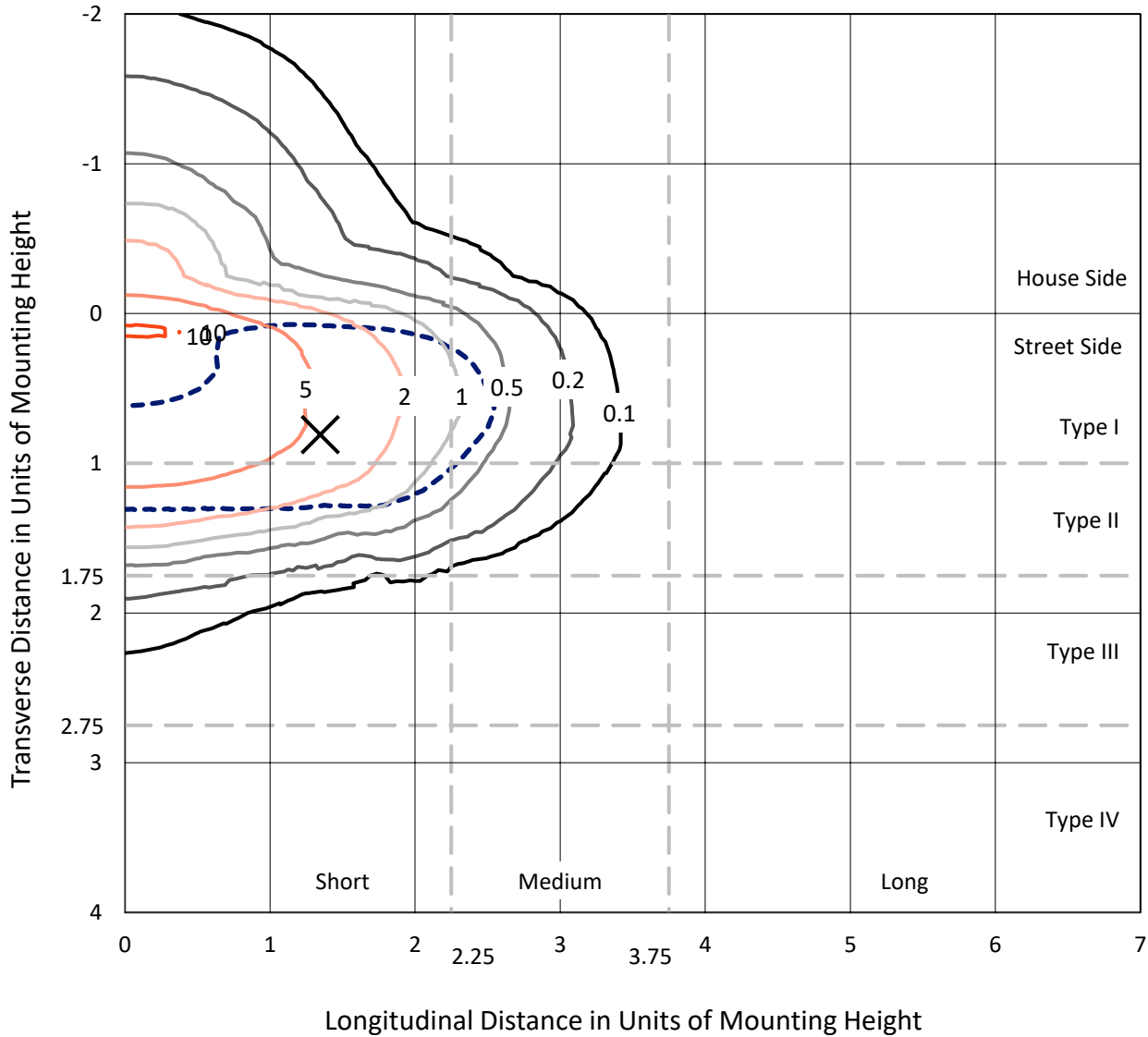
Lumens per Lamp: N/A  
Luminaire Lumens: 14331.4 lumens  
Efficiency: N/A  
Efficacy: 154.1 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 93  
Input Voltage (V): 120  
Input Current (Ain): 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

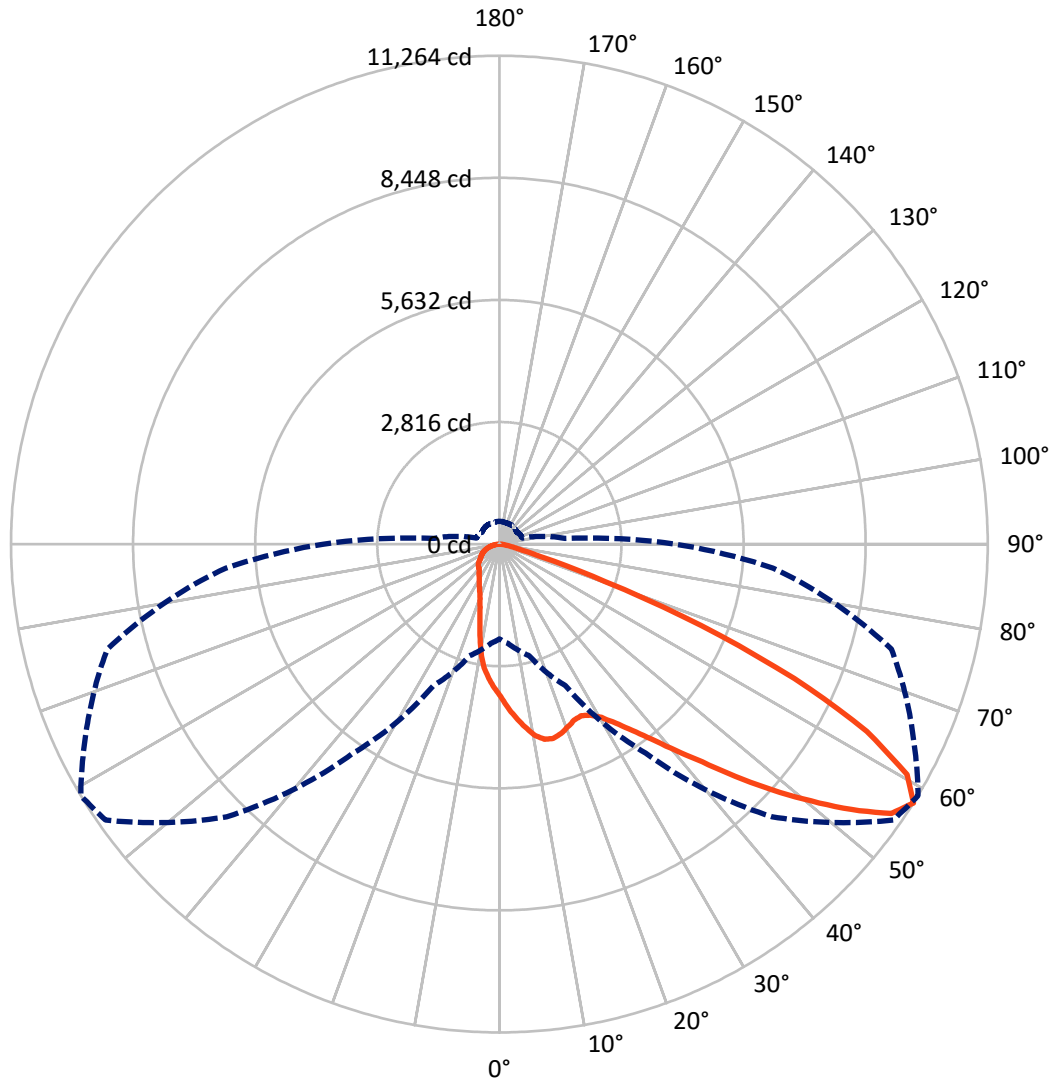
✕ Max cd  
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.8 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2224.2	0.0	2224.2
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	12107.2	0.0	12107.2
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	14331.4	0.0	14331.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	326.7	2.3
10°-20°	827.8	5.8
20°-30°	1341.8	9.4
30°-40°	2158.5	15.1
40°-50°	3351.9	23.4
50°-60°	3610.4	25.2
60°-70°	2095.3	14.6
70°-80°	547.0	3.8
80°-90°	72.1	0.5
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°	14331.4	100.0
0°-180°	14331.4	100.0

**Coefficient of Utilization**



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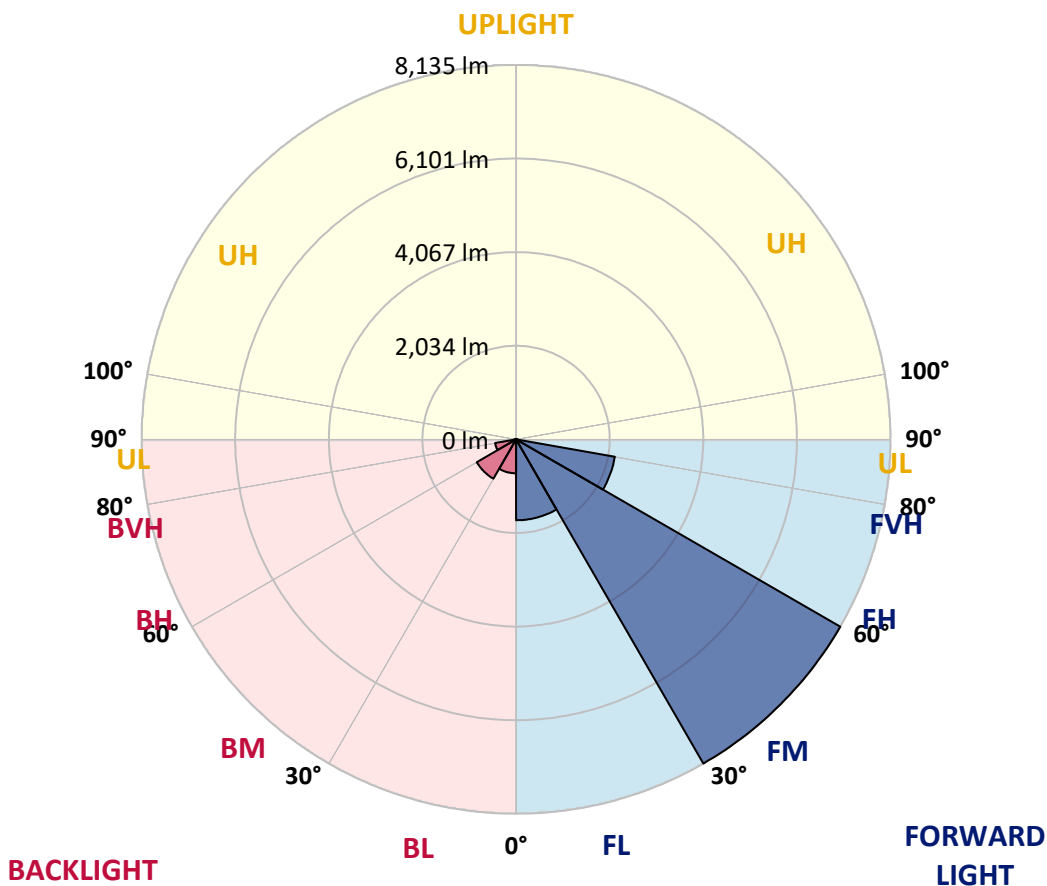
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1758.3	12.3			
FM (30°-60°)	8134.7	56.8			
FH (60°-80°)	2179.7	15.2			G2/5000
FVH (80°-90°)	34.5	0.2			G1/100
BL (0°-30°)	737.9	5.1	B2/1000		
BM (30°-60°)	986.1	6.9	B1/1000		
BH (60°-80°)	462.6	3.2	B1/500		G1/500
BVH (80°-90°)	37.6	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	3518.1	3518.1	3518.1	3518.1	3518.1	3518.1	3518.1	3518.1	3518.1	3518.1	3518.1
2.5°	3990.2	3956.9	3980.2	3938.8	3921.6	3876.2	3817.7	3778.4	3717.8	3639.1	3570.5
5°	4386.7	4363.5	4368.6	4324.2	4284.8	4209.2	4089.1	4022.5	3919.6	3761.2	3613.9
7.5°	4374.6	4401.9	4417.0	4455.4	4466.4	4459.4	4351.4	4258.6	4145.6	3907.5	3685.6
10°	3921.6	3973.1	4019.5	4150.7	4310.1	4511.8	4537.1	4481.6	4367.6	4094.2	3771.3
12.5°	3428.3	3467.6	3509.0	3666.4	3910.5	4314.1	4587.5	4621.8	4576.4	4278.8	3868.2
15°	3186.1	3204.3	3243.6	3347.6	3542.3	3990.2	4499.7	4650.1	4731.8	4474.5	3977.1
17.5°	3176.1	3184.1	3203.3	3258.8	3394.0	3740.0	4341.3	4593.6	4853.9	4681.3	4104.2
20°	3384.9	3363.7	3351.6	3350.6	3417.2	3656.3	4188.0	4502.8	4911.4	4893.2	4240.5
22.5°	3674.5	3681.5	3655.3	3590.7	3582.6	3715.8	4111.3	4411.0	4928.5	5080.9	4366.6
25°	4085.1	4120.4	4042.7	3919.6	3859.1	3888.3	4158.7	4382.7	4926.5	5237.3	4445.3
27.5°	4564.3	4591.6	4512.9	4351.4	4226.3	4155.7	4300.0	4466.4	4943.7	5372.5	4492.7
30°	5110.1	5119.2	5011.3	4841.8	4659.2	4507.8	4535.1	4639.0	5031.4	5550.0	4548.2
32.5°	5777.0	5815.4	5651.9	5383.5	5128.3	4934.6	4850.8	4917.4	5221.1	5759.9	4633.9
35°	6623.5	6636.6	6428.8	6044.4	5683.2	5414.8	5239.3	5274.6	5509.7	6053.5	4763.1
37.5°	7421.5	7434.7	7213.7	6856.6	6340.0	5972.8	5718.5	5702.4	5878.9	6468.1	4973.9
40°	7928.0	7965.4	7866.5	7642.5	7149.1	6653.8	6308.7	6253.2	6363.2	6975.6	5267.5
42.5°	8200.4	8216.6	8214.6	8243.8	7950.2	7457.9	6974.6	6863.6	6937.3	7523.4	5564.1
45°	8202.4	8242.8	8350.8	8632.2	8645.4	8338.6	7816.0	7642.5	7574.9	8075.3	5873.9
47.5°	7835.2	7878.6	8175.2	8729.1	9137.7	9207.3	8823.9	8475.9	8191.3	8550.5	6128.1
50°	6723.4	6832.3	7397.3	8377.0	9234.6	9903.5	9785.4	9313.3	8739.2	8917.8	6287.5
52.5°	5757.9	5753.8	6101.9	7382.2	8830.0	10210.2	10715.6	10174.9	9281.0	9150.8	6327.9
55°	4216.2	4239.4	4595.6	5645.9	7750.5	9913.6	11227.2	10967.9	9902.5	9274.9	6311.7
57.5°	2186.3	2301.3	2666.6	3602.8	5889.0	8892.5	11091.0	11263.5	10534.0	9362.7	6332.9
60°	1104.8	1082.6	1213.7	1720.2	3412.1	6945.3	10251.5	10801.4	10648.0	9431.3	6346.0
62.5°	737.5	731.5	695.1	797.0	1394.3	4113.3	8739.2	9510.0	9856.1	9269.9	6178.6
65°	638.6	626.5	559.9	555.9	677.0	1706.1	6405.6	7476.0	8145.9	8552.5	5778.0
67.5°	575.1	556.9	489.3	456.0	486.3	749.6	3609.9	5014.3	6015.1	7232.9	4900.3
70°	513.5	504.5	436.9	388.4	385.4	457.0	1329.7	2587.9	3680.5	4934.6	3582.6
72.5°	460.1	443.9	386.4	340.0	316.8	323.9	577.1	996.8	1904.8	3078.2	2142.9
75°	398.5	386.4	336.0	289.6	261.3	237.1	352.1	461.1	868.7	1462.9	1011.9
77.5°	307.7	299.6	265.3	230.0	213.9	176.6	213.9	290.6	401.5	616.4	526.7
80°	178.6	183.6	197.7	179.6	157.4	126.1	139.2	167.5	241.1	333.9	298.6
82.5°	89.8	95.8	128.1	103.9	93.8	73.7	82.7	98.9	126.1	184.6	117.0
85°	7.1	7.1	23.2	26.2	32.3	26.2	33.3	40.4	57.5	73.7	39.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	5.0	9.1	17.2	11.1
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°	3518.1	3518.1	3518.1	3518.1	3518.1	3518.1	3518.1	3518.1	3518.1	3518.1	3518.1
2.5°	3524.1	3472.7	3411.1	3360.7	3283.0	3241.6	3189.2	3124.6	3098.4	3086.3	3079.2
5°	3531.2	3440.4	3309.2	3188.2	3054.0	2948.0	2830.0	2706.9	2636.3	2619.1	2607.0
7.5°	3557.4	3430.3	3221.5	3021.7	2772.5	2541.4	2316.5	2093.5	1979.5	1936.1	1932.1
10°	3593.7	3426.3	3132.7	2800.7	2380.0	2014.8	1751.5	1576.9	1503.3	1479.1	1471.0
12.5°	3639.1	3423.2	3015.6	2494.0	1927.0	1582.0	1431.6	1403.4	1413.5	1411.5	1411.5
15°	3696.6	3427.3	2874.4	2147.0	1558.8	1373.1	1376.2	1409.4	1440.7	1445.8	1445.8
17.5°	3759.2	3423.2	2669.6	1798.9	1337.8	1323.7	1370.1	1416.5	1444.8	1448.8	1448.8
20°	3826.8	3404.1	2411.3	1471.0	1241.0	1292.4	1342.9	1379.2	1396.3	1400.4	1400.4
22.5°	3867.2	3349.6	2130.8	1245.0	1179.4	1243.0	1276.3	1313.6	1315.6	1283.3	1282.3
25°	3861.1	3247.7	1811.0	1099.7	1113.8	1169.3	1211.7	1185.5	1153.2	1135.0	1132.0
27.5°	3822.8	3094.3	1485.1	989.7	1036.2	1098.7	1085.6	1063.4	1055.3	1035.1	1033.1
30°	3774.3	2905.7	1192.5	904.0	955.4	1012.9	992.8	990.8	982.7	960.5	960.5
32.5°	3727.9	2710.9	971.6	840.4	904.0	908.0	936.3	938.3	934.3	895.9	891.9
35°	3714.8	2516.2	822.3	790.0	853.5	851.5	891.9	890.9	821.3	767.8	766.8
37.5°	3754.2	2318.5	733.5	748.6	783.9	810.2	842.4	783.9	760.7	728.4	726.4
40°	3837.9	2135.9	688.1	724.4	739.5	777.9	727.4	731.5	725.4	701.2	698.2
42.5°	3948.9	1980.5	662.9	716.3	714.3	724.4	668.9	685.1	694.1	676.0	672.9
45°	4055.8	1845.3	649.7	686.1	696.1	637.6	626.5	641.7	655.8	648.7	645.7
47.5°	4134.5	1728.3	642.7	644.7	672.9	608.4	590.2	597.3	614.4	617.5	616.4
50°	4158.7	1628.4	634.6	610.4	604.3	579.1	565.0	563.0	583.2	597.3	599.3
52.5°	4112.3	1539.6	613.4	580.1	550.9	554.9	549.9	539.8	559.9	579.1	581.1
55°	4043.7	1489.2	580.1	550.9	516.6	532.7	534.7	525.6	538.8	551.9	551.9
57.5°	4048.8	1518.4	547.8	523.6	486.3	507.5	518.6	514.5	514.5	524.6	525.6
60°	4082.1	1560.8	526.7	489.3	456.0	478.2	503.4	499.4	490.3	503.4	503.4
62.5°	3986.2	1504.3	512.5	456.0	423.7	450.0	480.2	478.2	468.1	489.3	491.3
65°	3703.7	1352.9	496.4	414.7	391.5	421.7	448.0	455.0	445.9	474.2	479.2
67.5°	3104.4	1138.1	465.1	375.3	359.2	387.4	412.6	422.7	415.7	449.0	453.0
70°	2314.4	921.1	415.7	331.9	319.8	345.0	368.3	372.3	373.3	412.6	416.7
72.5°	1476.0	716.3	350.1	283.5	274.4	293.6	310.7	326.9	333.9	371.3	370.3
75°	823.3	532.7	281.5	240.1	224.0	239.1	259.3	278.5	298.6	353.1	359.2
77.5°	474.2	374.3	223.0	192.7	173.5	189.7	206.8	234.1	294.6	342.0	336.0
80°	267.4	243.1	168.5	141.2	129.1	141.2	154.4	205.8	232.0	252.2	255.3
82.5°	125.1	136.2	115.0	86.8	86.8	94.8	106.9	159.4	175.6	143.3	125.1
85°	45.4	61.5	56.5	44.4	39.3	38.3	66.6	90.8	56.5	50.4	43.4
87.5°	12.1	17.2	16.1	11.1	6.1	5.0	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)