

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: P640315

Luminaire Tested: GWS-SA5D-750-U-T3R-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640315  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5D-750-U-T3R-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

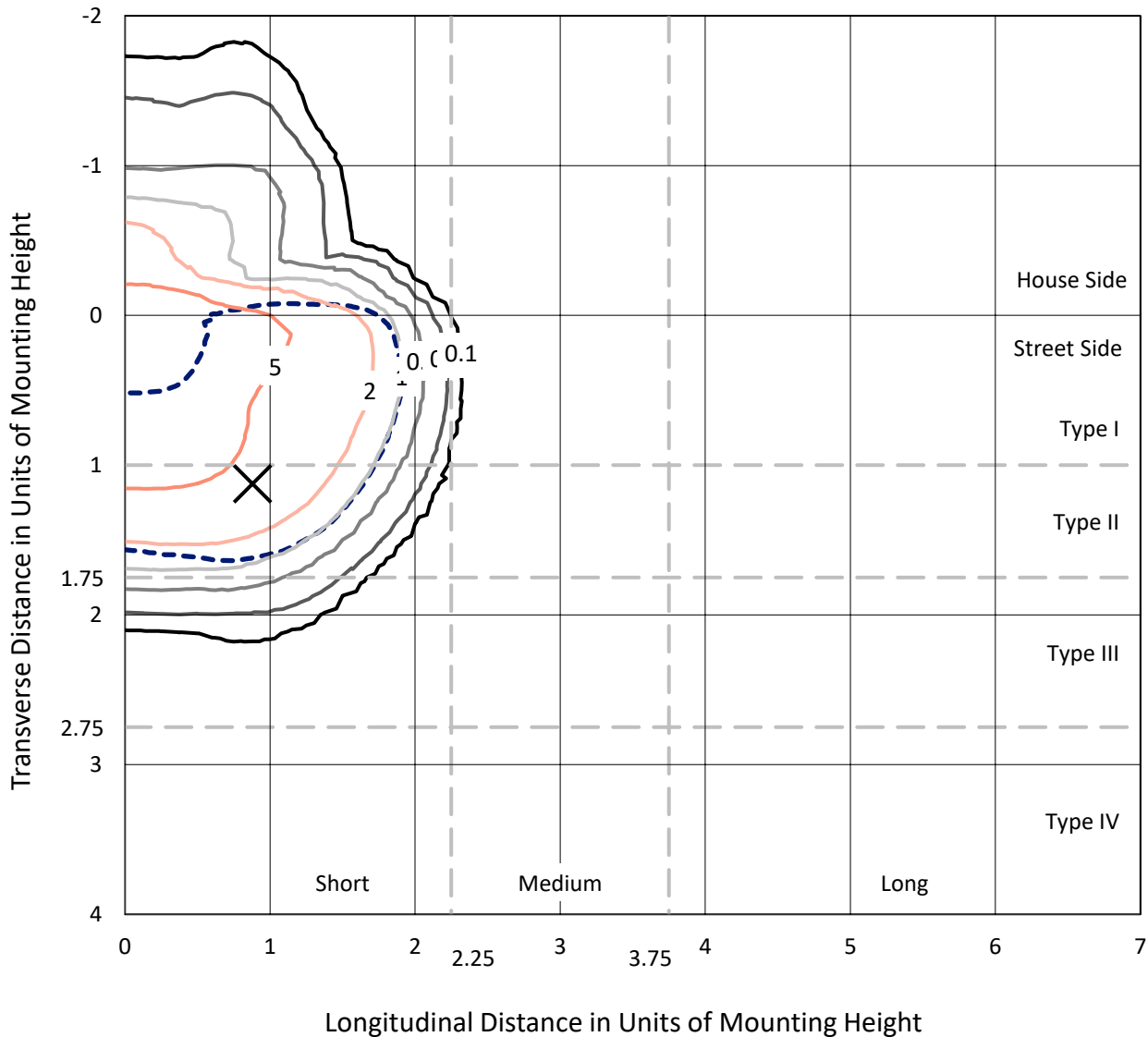
Lumens per Lamp: N/A  
Luminaire Lumens: 19273.2 lumens  
Efficiency: N/A  
Efficacy: 94.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G1  
  
Input Watts (W): 204.6  
Input Voltage (V): 120  
Input Current (Ain): 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

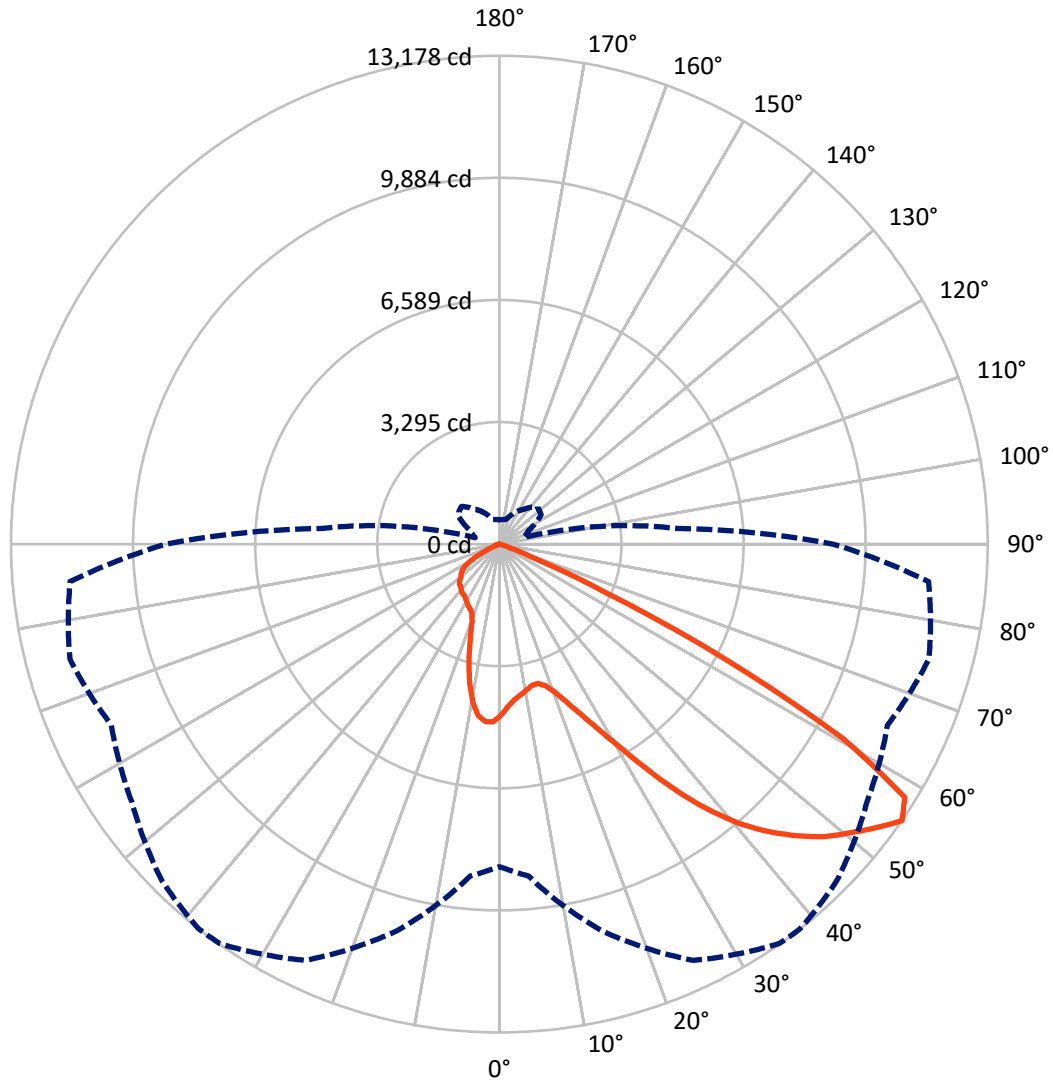
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3755.0	0.0	3755.0
	% Fixture	19.5	0.0	19.5
<b>Street Side</b>	Lumens	15518.2	0.0	15518.2
	% Fixture	80.5	0.0	80.5
<b>Total</b>	Lumens	19273.2	0.0	19273.2
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	427.4	2.2
10°-20°	1150.5	6.0
20°-30°	1974.3	10.2
30°-40°	3274.5	17.0
40°-50°	4813.7	25.0
50°-60°	5624.9	29.2
60°-70°	1906.7	9.9
70°-80°	97.5	0.5
80°-90°	3.8	0.0
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°	19273.2	100.0
0°-180°	19273.2	100.0

**Coefficient of Utilization**



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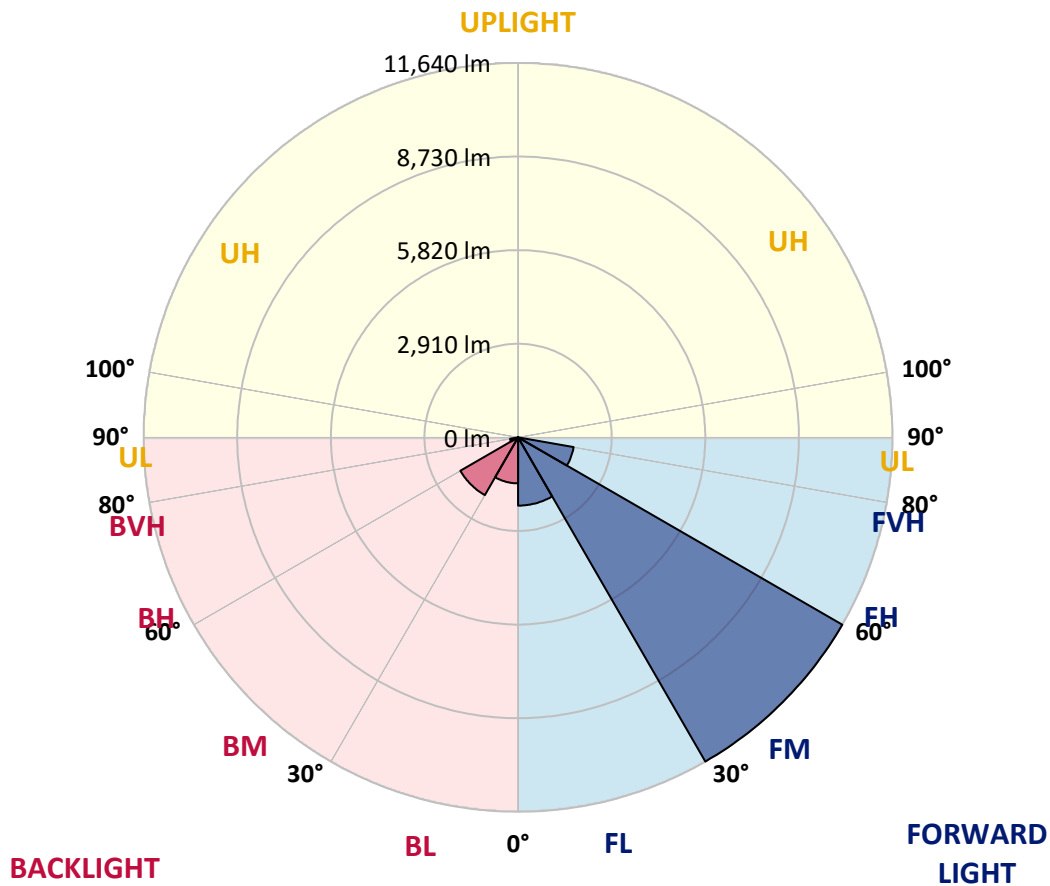
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2121.5	11.0			
FM (30°-60°)	11640.5	60.4			
FH (60°-80°)	1754.2	9.1			G1/1800
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	1430.6	7.4	B3/2500		
BM (30°-60°)	2072.6	10.8	B2/2500		
BH (60°-80°)	250.0	1.3	B1/500		G1/500
BVH (80°-90°)	1.8	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4621.9	4621.9	4621.9	4621.9	4621.9	4621.9	4621.9	4621.9	4621.9	4621.9	4621.9
2.5°	4304.6	4295.8	4313.4	4348.7	4381.7	4392.8	4425.8	4472.1	4500.7	4569.0	4624.1
5°	4110.8	4106.4	4124.0	4154.8	4198.9	4214.3	4265.0	4342.1	4419.2	4538.1	4654.9
7.5°	3934.5	3932.3	3958.8	4027.1	4090.9	4110.8	4172.5	4267.2	4370.7	4553.6	4725.4
10°	3703.2	3705.4	3756.1	3853.0	3969.8	4009.4	4108.6	4245.2	4379.5	4615.3	4853.2
12.5°	3628.3	3632.7	3659.2	3734.1	3861.8	3912.5	4051.3	4258.4	4430.2	4703.4	5018.4
15°	3811.2	3811.2	3789.1	3797.9	3855.2	3901.5	4046.9	4302.4	4516.1	4809.1	5181.4
17.5°	4165.8	4152.6	4097.6	4022.6	4002.8	4018.2	4135.0	4397.2	4637.3	4932.5	5366.5
20°	4646.1	4650.5	4542.6	4386.1	4260.6	4258.4	4328.9	4564.6	4811.3	5080.1	5566.9
22.5°	5227.7	5210.1	5066.9	4853.2	4635.1	4617.5	4646.1	4820.1	5062.5	5313.6	5813.7
25°	5901.8	5893.0	5690.3	5403.9	5115.3	5073.5	5073.5	5245.3	5421.5	5646.2	6108.9
27.5°	6606.7	6606.7	6410.7	6080.2	5696.9	5622.0	5611.0	5813.7	5930.4	5974.5	6357.8
30°	7331.5	7322.7	7128.9	6789.6	6379.8	6302.7	6271.9	6421.7	6505.4	6373.2	6668.4
32.5°	8067.3	8082.7	7886.7	7571.7	7206.0	7155.3	7060.6	7060.6	7128.9	6943.8	7157.5
35°	8858.2	8853.8	8699.6	8485.9	8173.1	8115.8	7959.4	7714.9	7818.4	7736.9	7833.8
37.5°	9556.5	9589.6	9514.7	9356.1	9102.7	9045.5	8787.7	8344.9	8424.2	8552.0	8637.9
40°	10265.9	10292.3	10367.2	10316.6	9997.1	9891.4	9433.2	8706.2	8794.3	9232.7	9479.4
42.5°	10962.0	10975.3	11127.3	11211.0	10783.6	10598.6	9922.2	8926.5	9019.0	9765.8	10197.6
45°	11404.8	11433.5	11684.6	11940.2	11477.5	11224.2	10347.4	9208.5	9248.1	10135.9	10728.5
47.5°	11387.2	11453.3	11924.8	12389.6	12074.6	11801.4	10858.5	9660.1	9594.0	10484.0	11078.8
50°	11032.5	11111.9	11788.2	12526.2	12504.1	12250.8	11426.9	10314.4	10107.3	10792.4	11122.9
52.5°	10296.7	10525.9	11548.0	12543.8	12850.0	12722.2	12129.6	11195.6	10801.2	11235.2	11193.4
55°	8706.2	8988.2	10818.9	12394.0	13162.8	13178.3	12867.6	12114.2	11554.7	11997.5	11627.4
57.5°	6609.0	6833.7	8327.3	11032.5	12645.1	12898.5	13154.0	12598.9	12019.5	12517.4	11728.7
60°	3983.0	4242.9	5214.5	8096.0	10213.0	10644.8	11647.2	11539.2	10840.9	11054.6	9618.2
62.5°	1614.8	1751.4	2407.9	4461.0	6428.3	6831.5	7792.0	7955.0	7783.1	7565.0	5833.5
65°	590.4	645.5	964.9	1843.9	2956.4	3104.0	3610.7	3899.3	4137.2	3522.6	2169.9
67.5°	365.7	400.9	627.9	947.3	1075.1	1000.2	1017.8	1213.8	1158.8	716.0	387.7
70°	271.0	299.6	491.3	656.5	434.0	334.9	226.9	242.3	218.1	191.7	189.5
72.5°	187.3	213.7	367.9	387.7	167.4	119.0	83.7	116.8	132.2	130.0	134.4
75°	123.4	143.2	231.3	152.0	41.9	33.0	28.6	61.7	79.3	79.3	81.5
77.5°	72.7	83.7	81.5	30.8	8.8	8.8	6.6	11.0	17.6	19.8	24.2
80°	8.8	6.6	4.4	4.4	4.4	4.4	4.4	4.4	6.6	6.6	6.6
82.5°	2.2	2.2	2.2	4.4	4.4	4.4	4.4	4.4	4.4	6.6	6.6
85°	0.0	0.0	2.2	2.2	4.4	4.4	4.4	4.4	4.4	6.6	6.6
87.5°	0.0	0.0	2.2	2.2	4.4	4.4	4.4	4.4	4.4	6.6	6.6
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°	4621.9	4621.9	4621.9	4621.9	4621.9	4621.9	4621.9	4621.9	4621.9	4621.9	4621.9
2.5°	4665.9	4650.5	4714.4	4760.6	4798.1	4815.7	4791.5	4789.3	4789.3	4740.8	4727.6
5°	4721.0	4727.6	4817.9	4857.6	4864.2	4842.2	4787.1	4749.6	4727.6	4676.9	4648.3
7.5°	4826.7	4848.8	4934.7	4928.1	4868.6	4767.3	4621.9	4509.5	4436.8	4357.5	4309.0
10°	4978.7	5020.6	5073.5	4980.9	4791.5	4533.7	4234.1	4020.4	3892.7	3802.4	3747.3
12.5°	5163.8	5205.7	5188.0	4969.9	4575.6	4115.2	3729.7	3421.2	3273.6	3192.1	3134.8
15°	5351.0	5377.5	5262.9	4837.8	4194.5	3575.4	3145.9	2839.6	2659.0	2592.9	2544.4
17.5°	5542.7	5536.1	5276.1	4577.8	3685.6	2967.4	2544.4	2335.2	2284.5	2273.5	2269.1
20°	5743.2	5683.7	5223.3	4205.5	3073.2	2366.0	2125.9	2139.1	2231.6	2275.7	2284.5
22.5°	5972.3	5822.5	5091.1	3701.0	2447.5	1971.7	1995.9	2125.9	2251.4	2310.9	2319.7
25°	6216.8	5950.3	4870.8	3053.3	1929.8	1813.1	1956.3	2106.1	2240.4	2313.1	2321.9
27.5°	6377.6	5981.1	4509.5	2401.3	1656.6	1751.4	1903.4	2046.6	2185.4	2264.7	2275.7
30°	6551.7	5967.9	4018.2	1850.5	1564.1	1698.5	1830.7	1960.7	2088.4	2176.5	2185.4
32.5°	6807.2	5959.1	3419.0	1502.4	1526.7	1656.6	1753.6	1861.5	1949.6	2000.3	1993.7
35°	7142.1	5948.1	2720.7	1354.8	1504.6	1623.6	1700.7	1751.4	1654.4	1623.6	1630.2
37.5°	7571.7	5974.5	2132.5	1293.2	1498.0	1614.8	1680.9	1535.5	1385.7	1328.4	1319.6
40°	8047.5	6042.8	1625.8	1268.9	1520.1	1636.8	1606.0	1365.9	1180.8	1068.4	1044.2
42.5°	8525.5	6117.7	1286.5	1260.1	1557.5	1698.5	1482.6	1242.5	964.9	901.0	892.2
45°	8880.2	6104.5	1112.5	1244.7	1590.6	1733.7	1449.6	1066.2	861.4	832.7	834.9
47.5°	9058.7	5959.1	1017.8	1209.4	1603.8	1698.5	1368.1	993.5	790.9	821.7	848.1
50°	8963.9	5582.4	929.7	1141.1	1575.1	1652.2	1238.1	938.5	755.6	883.4	942.9
52.5°	8849.4	5119.7	832.7	1035.4	1506.8	1588.4	1187.4	923.1	733.6	852.6	896.6
55°	9001.4	4826.7	674.1	872.4	1372.5	1438.5	1147.8	920.8	682.9	663.1	656.5
57.5°	8787.7	4242.9	482.5	627.9	1053.0	1138.9	1119.1	905.4	605.8	603.6	612.4
60°	6791.8	2588.5	330.4	398.7	645.5	727.0	1015.6	865.8	522.1	480.3	482.5
62.5°	3859.6	1101.5	226.9	246.7	330.4	392.1	775.5	786.5	482.5	458.2	482.5
65°	1343.8	394.3	176.2	165.2	182.8	209.3	445.0	608.0	438.4	396.5	400.9
67.5°	277.6	196.1	156.4	136.6	136.6	136.6	226.9	378.9	361.3	315.0	319.4
70°	176.2	167.4	136.6	116.8	112.4	103.5	130.0	209.3	248.9	229.1	231.3
72.5°	130.0	127.8	107.9	94.7	83.7	74.9	81.5	103.5	127.8	132.2	134.4
75°	79.3	81.5	70.5	59.5	52.9	46.3	48.5	48.5	48.5	44.1	48.5
77.5°	24.2	26.4	22.0	17.6	15.4	15.4	15.4	13.2	11.0	6.6	6.6
80°	6.6	6.6	6.6	6.6	6.6	4.4	4.4	2.2	2.2	0.0	0.0
82.5°	6.6	6.6	6.6	6.6	4.4	4.4	2.2	2.2	0.0	0.0	0.0
85°	6.6	6.6	6.6	6.6	4.4	4.4	2.2	2.2	0.0	0.0	0.0
87.5°	6.6	6.6	6.6	6.6	4.4	4.4	2.2	2.2	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)