

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: P640806

Luminaire Tested: GWS-SA5E-750-U-T3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640806  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-750-U-T3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

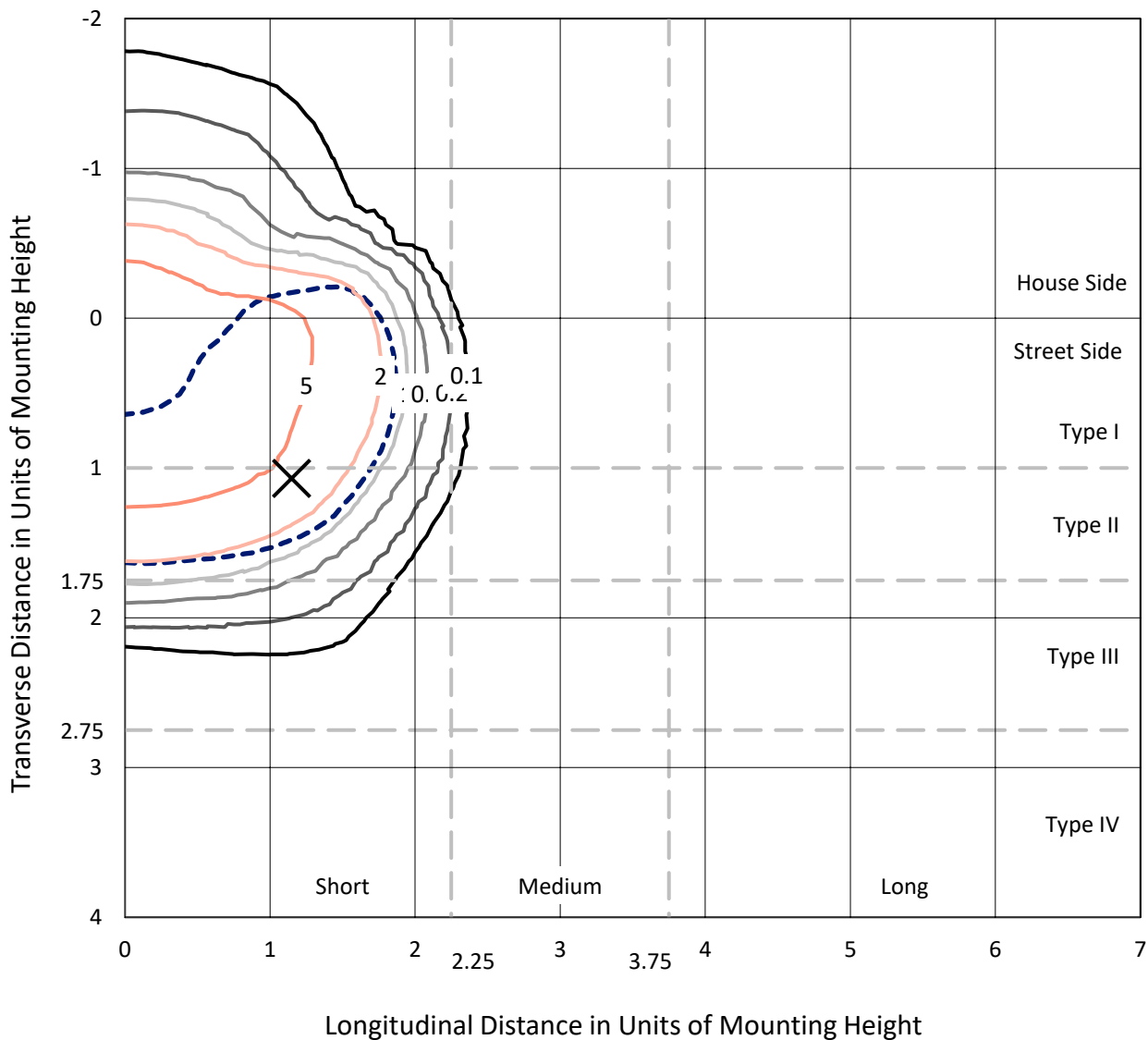
Lumens per Lamp: N/A  
Luminaire Lumens: 23713.1 lumens  
Efficiency: N/A  
Efficacy: 88.0 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

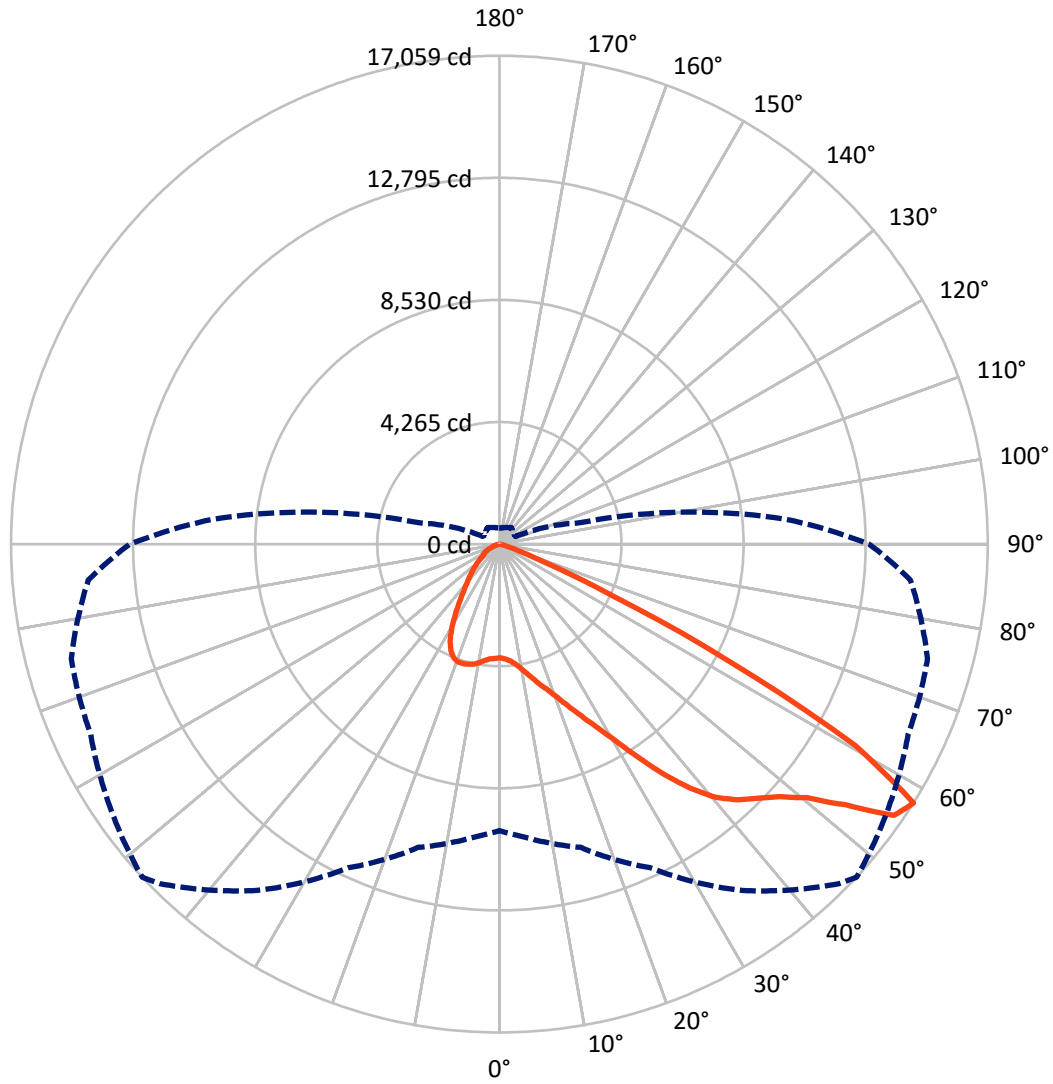
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5144.5	0.0	5144.5
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	18568.6	0.0	18568.6
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	23713.1	0.0	23713.1
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	394.9	1.7
10°-20°	1332.6	5.6
20°-30°	2474.3	10.4
30°-40°	3960.9	16.7
40°-50°	5789.9	24.4
50°-60°	7145.7	30.1
60°-70°	2387.7	10.1
70°-80°	222.5	0.9
80°-90°	4.6	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°	23713.1	100.0
0°-180°	23713.1	100.0

**Coefficient of Utilization**



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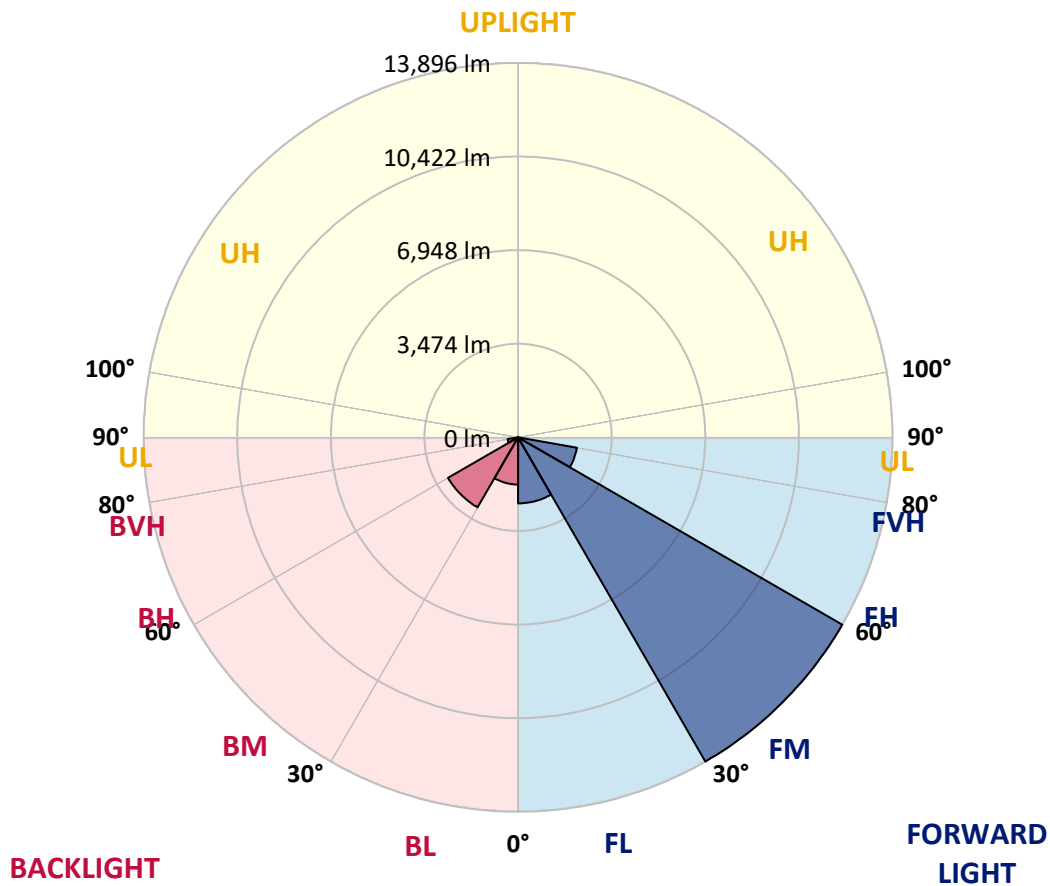
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2450.7	10.3			
FM (30°-60°)	13895.7	58.6			
FH (60°-80°)	2219.1	9.4			G2/5000
FVH (80°-90°)	3.2	0.0			G0/10
BL (0°-30°)	1751.1	7.4	B3/2500		
BM (30°-60°)	3000.8	12.7	B3/5000		
BH (60°-80°)	391.1	1.6	B1/500		G1/500
BVH (80°-90°)	1.5	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	3969.6	3969.6	3969.6	3969.6	3969.6	3969.6	3969.6	3969.6	3969.6	3969.6	3969.6
2.5°	4010.9	4008.1	4005.4	4021.9	4016.4	4013.6	4019.1	4019.1	4019.1	4002.6	3969.6
5°	4107.2	4107.2	4104.5	4121.0	4107.2	4099.0	4101.7	4101.7	4090.7	4060.4	4019.1
7.5°	4258.6	4253.1	4247.6	4264.2	4250.4	4247.6	4253.1	4236.6	4217.4	4167.8	4110.0
10°	4476.1	4476.1	4467.9	4484.4	4473.4	4467.9	4467.9	4456.9	4421.1	4344.0	4258.6
12.5°	4776.2	4762.4	4743.1	4729.4	4723.9	4721.1	4723.9	4707.4	4668.8	4569.7	4451.3
15°	5103.8	5092.8	5062.5	5040.5	5010.2	5004.7	5021.2	5007.4	4968.9	4834.0	4666.1
17.5°	5516.7	5530.5	5453.4	5406.6	5318.5	5313.0	5318.5	5340.5	5313.0	5139.6	4894.6
20°	5869.1	5880.1	5822.3	5789.2	5709.4	5673.6	5684.6	5720.4	5690.1	5486.4	5145.1
22.5°	6246.2	6260.0	6199.4	6130.6	6094.8	6094.8	6136.1	6185.6	6144.3	5877.3	5431.4
25°	6697.7	6708.7	6659.1	6568.3	6505.0	6584.8	6645.4	6777.5	6708.7	6345.3	5770.0
27.5°	7215.2	7218.0	7146.4	7052.8	7019.7	7168.4	7229.0	7432.7	7405.1	6871.1	6127.8
30°	7768.5	7771.3	7754.8	7691.4	7661.2	7856.6	7939.2	8233.8	8214.5	7523.5	6615.1
32.5°	8343.9	8343.9	8374.1	8368.6	8404.4	8723.8	8855.9	9191.7	9172.5	8321.8	7220.7
35°	8922.0	8924.7	8977.0	9109.2	9257.8	9681.7	9855.2	10262.6	10218.6	9277.1	7994.3
37.5°	9579.9	9552.4	9623.9	9822.1	10152.5	10642.5	10807.7	11195.8	11146.3	10254.3	9004.5
40°	10372.7	10323.2	10323.2	10554.4	10928.8	11493.1	11633.5	11826.2	11658.3	11044.4	9995.6
42.5°	11248.1	11201.3	11140.8	11344.5	11658.3	12098.7	12214.4	12162.1	12024.4	11790.4	11124.2
45°	12134.5	12063.0	12104.2	12228.1	12409.8	12619.0	12663.1	12420.8	12357.5	12423.6	12057.4
47.5°	12809.0	12759.4	12861.3	13034.7	13183.4	13213.6	13183.4	12847.5	12842.0	13076.0	12704.4
50°	13034.7	13040.2	13321.0	13700.9	13940.4	13965.2	13923.9	13538.5	13486.2	13555.0	13054.0
52.5°	13056.7	13078.8	13488.9	14212.9	14865.3	15162.7	15129.6	14713.9	14201.9	14127.6	13582.5
55°	12525.4	12654.8	13227.4	14284.5	15671.9	16621.7	16731.8	15936.2	15176.4	15113.1	14719.4
57.5°	10012.1	10276.4	10967.3	12473.1	14771.8	16773.1	17059.4	16486.8	15751.8	15482.0	14413.9
60°	5984.7	6312.3	6975.7	8822.9	11242.6	13786.2	14279.0	14358.8	14020.2	13241.2	11058.2
62.5°	2568.4	2540.9	3358.5	4773.4	6686.7	8762.3	8985.3	9332.1	9626.7	8811.8	6711.4
65°	880.9	958.0	1332.4	2152.7	3347.5	4068.7	4266.9	4578.0	4996.4	4123.8	2458.3
67.5°	545.1	578.1	768.0	1271.8	1805.9	1778.3	1690.2	1640.7	1596.6	1092.9	674.4
70°	396.4	423.9	539.6	875.4	1214.0	853.4	740.5	600.1	666.2	613.9	479.0
72.5°	267.0	289.0	371.6	531.3	622.1	415.7	385.4	437.7	528.5	503.8	390.9
75°	159.7	173.4	212.0	258.8	253.3	214.7	217.5	308.3	404.7	377.1	278.0
77.5°	110.1	115.6	140.4	167.9	123.9	66.1	60.6	85.3	137.6	137.6	93.6
80°	27.5	35.8	35.8	22.0	19.3	16.5	16.5	24.8	38.5	27.5	13.8
82.5°	2.8	2.8	2.8	2.8	2.8	2.8	2.8	5.5	5.5	5.5	5.5
85°	0.0	0.0	2.8	2.8	2.8	2.8	2.8	2.8	5.5	5.5	5.5
87.5°	0.0	0.0	2.8	2.8	2.8	2.8	2.8	2.8	2.8	5.5	5.5
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°	3969.6	3969.6	3969.6	3969.6	3969.6	3969.6	3969.6	3969.6	3969.6	3969.6	3969.6
2.5°	3988.9	3955.8	3977.9	3972.4	3988.9	3994.4	3969.6	3964.1	3966.8	3933.8	3922.8
5°	4027.4	3988.9	3999.9	3988.9	4008.1	4024.7	4016.4	4027.4	4041.2	4016.4	4005.4
7.5°	4110.0	4071.5	4068.7	4052.2	4079.7	4090.7	4088.0	4118.3	4145.8	4129.3	4112.7
10°	4253.1	4200.8	4195.3	4181.6	4189.8	4198.1	4167.8	4173.3	4198.1	4178.8	4170.6
12.5°	4429.3	4366.0	4352.2	4319.2	4319.2	4277.9	4211.8	4198.1	4217.4	4203.6	4189.8
15°	4619.3	4533.9	4511.9	4454.1	4399.0	4322.0	4253.1	4236.6	4250.4	4233.9	4222.9
17.5°	4831.2	4734.9	4663.3	4561.5	4440.3	4349.5	4272.4	4236.6	4214.6	4181.6	4178.8
20°	5040.5	4913.8	4792.7	4630.3	4470.6	4333.0	4206.3	4112.7	4032.9	3983.4	3964.1
22.5°	5282.7	5095.5	4900.1	4671.6	4443.1	4233.9	4010.9	3851.2	3713.6	3666.8	3644.8
25°	5541.5	5299.2	5007.4	4710.1	4349.5	4013.6	3710.8	3474.1	3292.4	3231.8	3207.1
27.5°	5827.8	5494.7	5117.5	4701.9	4156.8	3699.8	3297.9	3003.4	2824.4	2769.4	2788.6
30°	6191.1	5747.9	5255.2	4616.5	3867.7	3259.4	2788.6	2540.9	2406.0	2353.7	2356.4
32.5°	6675.6	6111.3	5456.1	4434.8	3496.1	2758.3	2345.4	2163.7	2072.9	2004.1	1998.6
35°	7369.4	6664.6	5643.3	4143.0	3044.6	2312.4	2012.3	1869.2	1742.5	1662.7	1676.5
37.5°	8200.7	7361.1	5745.2	3749.4	2538.1	1965.5	1761.8	1615.9	1472.8	1354.4	1368.2
40°	9186.2	8272.3	5736.9	3231.8	2075.6	1728.8	1552.6	1381.9	1203.0	1095.6	1106.6
42.5°	10284.6	9133.9	5558.0	2684.0	1720.5	1536.1	1351.6	1136.9	963.5	897.4	900.2
45°	11237.1	9833.2	5244.2	2116.9	1448.0	1348.9	1142.4	922.2	845.1	798.3	795.6
47.5°	11941.8	10345.2	4795.5	1665.5	1227.8	1178.2	938.7	825.9	765.3	726.8	721.2
50°	12335.5	10524.1	4299.9	1304.8	1037.8	999.3	839.6	748.8	707.5	682.7	677.2
52.5°	12864.0	10738.8	3944.8	1029.6	869.9	817.6	773.5	696.5	668.9	649.7	641.4
55°	13700.9	11154.5	3636.5	817.6	724.0	713.0	729.5	666.2	649.7	619.4	608.4
57.5°	12913.6	10020.3	2824.4	633.2	611.1	652.4	704.7	635.9	594.6	567.1	556.1
60°	9087.1	6661.9	1420.5	509.3	545.1	611.1	663.4	575.3	534.1	539.6	534.1
62.5°	5010.2	3333.7	638.7	426.7	473.5	539.6	567.1	498.3	470.7	517.5	525.8
65°	1637.9	1134.2	368.9	330.3	374.4	440.5	490.0	473.5	468.0	523.0	539.6
67.5°	503.8	374.4	250.5	236.7	258.8	324.8	412.9	512.0	550.6	567.1	575.3
70°	377.1	294.6	214.7	201.0	212.0	247.8	349.6	426.7	401.9	404.7	399.2
72.5°	302.8	234.0	184.4	176.2	176.2	170.7	184.4	231.2	261.5	275.3	275.3
75°	212.0	165.2	140.4	129.4	101.9	82.6	74.3	74.3	66.1	63.3	60.6
77.5°	71.6	60.6	55.1	44.0	30.3	24.8	22.0	19.3	13.8	8.3	5.5
80°	11.0	8.3	5.5	5.5	5.5	2.8	2.8	2.8	0.0	0.0	0.0
82.5°	5.5	5.5	5.5	5.5	5.5	2.8	2.8	0.0	0.0	0.0	0.0
85°	5.5	5.5	5.5	5.5	5.5	2.8	2.8	0.0	0.0	0.0	0.0
87.5°	5.5	5.5	5.5	5.5	2.8	2.8	2.8	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)