

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: P640838

Luminaire Tested: GWS-SA5E-760-U-SL3-W-GRSBK

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640838  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-760-U-SL3-W-GRSBK  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

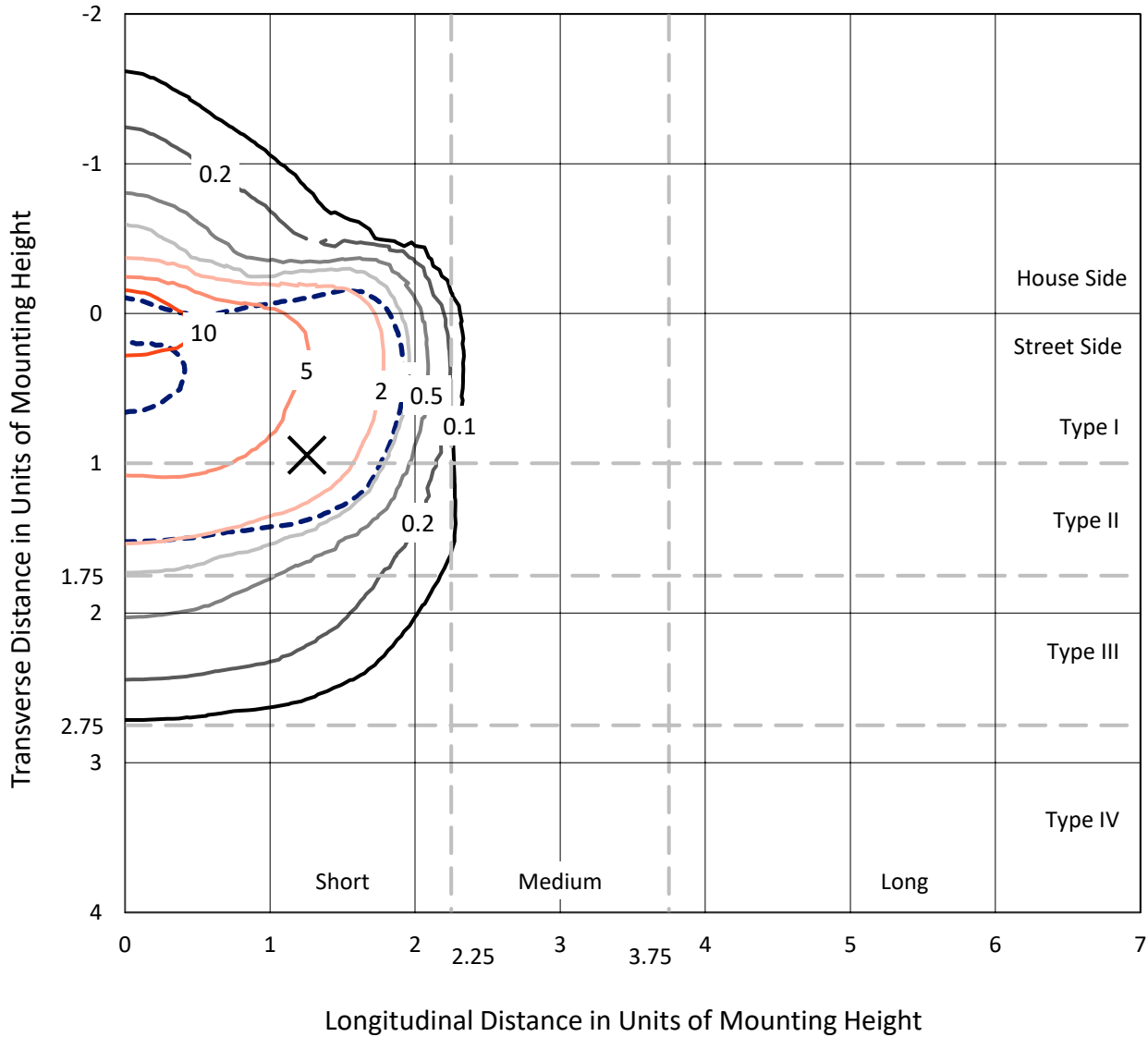
Lumens per Lamp: N/A  
Luminaire Lumens: 22152.7 lumens  
Efficiency: N/A  
Efficacy: 82.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): 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

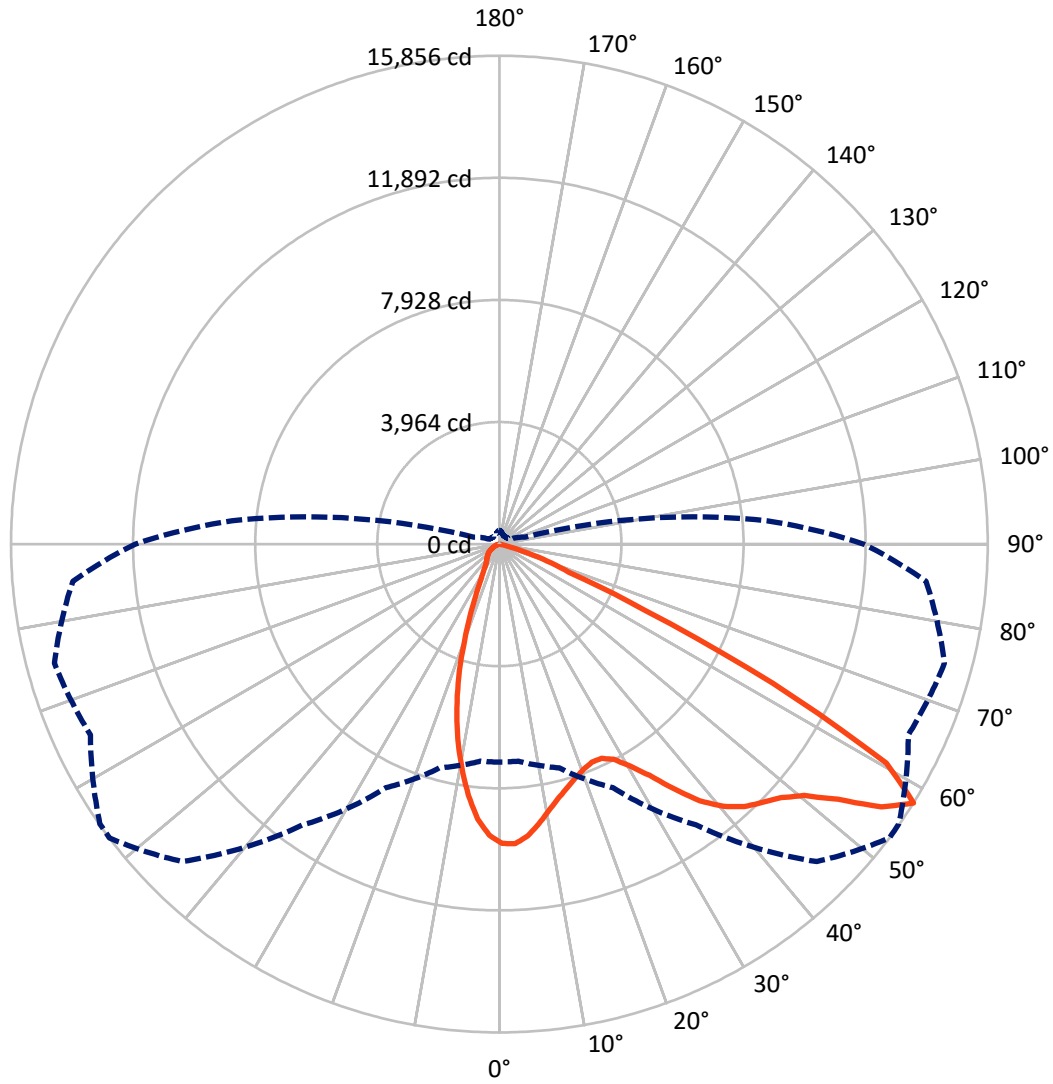
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.5 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3659.3	0.0	3659.3
	% Fixture	16.5	0.0	16.5
<b>Street Side</b>	Lumens	18493.4	0.0	18493.4
	% Fixture	83.5	0.0	83.5
<b>Total</b>	Lumens	22152.7	0.0	22152.7
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	831.4	3.8
10°-20°	1825.2	8.2
20°-30°	2377.8	10.7
30°-40°	3449.1	15.6
40°-50°	4976.7	22.5
50°-60°	6018.9	27.2
60°-70°	2453.1	11.1
70°-80°	220.4	1.0
80°-90°	0.0	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°	22152.7	100.0
0°-180°	22152.7	100.0

**Coefficient of Utilization**



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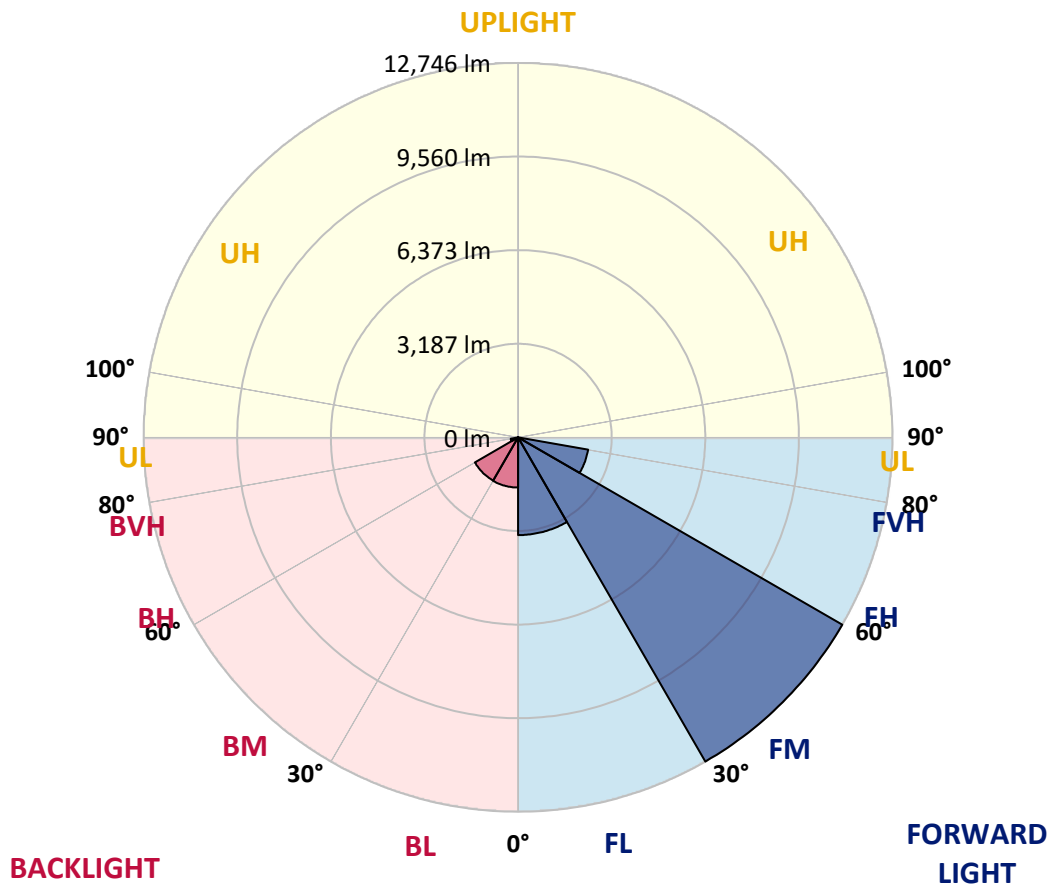
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3326.6	15.0			
FM (30°-60°)	12746.2	57.5			
FH (60°-80°)	2420.5	10.9			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1707.9	7.7	B3/2500		
BM (30°-60°)	1698.5	7.7	B2/2500		
BH (60°-80°)	253.0	1.1	B1/500		G1/500
BVH (80°-90°)	0.0	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°	53°	55°	65°	75°	85°
0°	9717.4	9717.4	9717.4	9717.4	9717.4	9717.4	9717.4	9717.4	9717.4	9717.4	9717.4
2.5°	9581.7	9603.4	9641.4	9690.3	9722.9	9739.2	9739.2	9785.3	9755.4	9731.0	9703.9
5°	9171.7	9193.4	9245.0	9323.7	9402.5	9459.5	9524.7	9573.5	9592.5	9592.5	9546.4
7.5°	8593.4	8623.2	8655.8	8764.4	8935.5	9063.1	9174.4	9245.0	9348.2	9380.8	9315.6
10°	7971.6	8001.5	8074.8	8224.1	8419.6	8609.7	8799.7	8889.3	9065.8	9158.1	9084.8
12.5°	7444.9	7458.5	7556.2	7735.4	7985.2	8245.8	8476.6	8568.9	8818.7	8957.2	8870.3
15°	7010.5	7018.6	7116.3	7314.6	7602.4	7922.7	8213.3	8308.3	8615.1	8824.2	8693.8
17.5°	6681.9	6684.6	6768.8	6983.3	7284.7	7640.4	7985.2	8101.9	8498.3	8750.9	8555.4
20°	6516.3	6508.2	6567.9	6755.2	7040.3	7396.0	7803.3	7947.2	8433.2	8740.0	8449.5
22.5°	6519.0	6500.0	6524.4	6657.5	6899.1	7233.1	7689.2	7852.1	8438.6	8786.1	8359.9
25°	6673.8	6646.6	6652.1	6722.7	6893.7	7197.8	7705.5	7879.3	8547.2	8940.9	8327.3
27.5°	6934.4	6904.6	6904.6	6939.9	7032.2	7309.1	7909.2	8107.4	8837.7	9242.3	8395.2
30°	7271.1	7241.2	7230.4	7265.7	7341.7	7596.9	8362.6	8568.9	9334.6	9736.4	8612.4
32.5°	7656.7	7621.4	7640.4	7689.2	7762.5	8115.5	8946.3	9220.6	9956.4	10401.6	9003.4
35°	8063.9	8034.1	8120.9	8226.8	8340.9	8835.0	9752.7	9991.7	10719.3	11229.8	9600.7
37.5°	8452.2	8438.6	8620.5	8843.2	9079.4	9698.4	10572.7	10757.3	11373.7	12131.2	10331.1
40°	8840.5	8837.7	9150.0	9541.0	9918.4	10559.1	11194.5	11346.5	11772.8	12831.7	11031.6
42.5°	9274.9	9274.9	9706.6	10227.9	10730.2	11286.8	11650.6	11718.5	11952.0	13236.2	11558.3
45°	9690.3	9714.7	10214.3	10819.8	11414.4	11854.2	11965.6	11971.0	12025.3	13475.2	11995.4
47.5°	10018.8	10040.5	10637.9	11335.7	11976.4	12285.9	12302.2	12277.8	12218.1	13703.2	12332.1
50°	10284.9	10317.5	10942.0	11680.5	12362.0	12701.4	12826.3	12801.8	12649.8	13947.6	12568.3
52.5°	10415.2	10461.4	11047.8	11851.5	12791.0	13412.7	13760.3	13817.3	13296.0	14083.4	12793.7
55°	9372.6	9440.5	9980.8	11080.4	13029.9	14512.4	15058.1	15047.2	13996.5	14487.9	13342.1
57.5°	7078.3	7072.9	7520.9	8723.7	11129.3	14574.8	15856.3	15834.6	14650.8	14957.6	13904.2
60°	4819.3	4786.8	4906.2	5487.3	7781.6	11873.2	14430.9	14724.1	14186.5	13817.3	11805.4
62.5°	3966.8	3936.9	3898.9	3738.7	4469.1	7396.0	9969.9	10415.2	10344.6	9603.4	7404.1
65°	3247.3	3271.7	3377.6	3309.7	3108.8	3793.0	5175.0	5438.4	4971.4	4184.0	2587.5
67.5°	2394.7	2405.6	2544.1	2902.5	2793.9	2525.1	2435.5	2478.9	1452.6	667.9	431.7
70°	1414.6	1422.7	1550.3	2030.9	2267.1	1938.6	1645.4	1620.9	575.6	179.2	195.5
72.5°	801.0	784.7	809.1	966.6	1235.4	1029.0	847.1	771.1	173.8	100.5	100.5
75°	380.1	369.3	317.7	298.7	271.5	173.8	108.6	92.3	43.4	40.7	40.7
77.5°	2.7	8.1	5.4	8.1	8.1	5.4	2.7	2.7	8.1	8.1	10.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	9717.4	9717.4	9717.4	9717.4	9717.4	9717.4	9717.4	9717.4	9717.4	9717.4	9717.4
2.5°	9655.0	9573.5	9554.5	9549.1	9473.1	9391.6	9307.5	9274.9	9226.0	9196.1	9220.6
5°	9473.1	9356.3	9253.2	9158.1	8989.8	8805.2	8645.0	8541.8	8444.0	8378.9	8395.2
7.5°	9215.1	9063.1	8826.9	8585.2	8275.7	7998.8	7689.2	7499.2	7322.7	7225.0	7271.1
10°	8940.9	8740.0	8362.6	7952.6	7466.6	7032.2	6589.6	6228.5	6019.4	5821.2	5843.0
12.5°	8672.1	8406.0	7841.3	7219.5	6605.9	5965.1	5297.2	4797.6	4455.5	4208.4	4170.4
15°	8422.3	8080.2	7333.6	6513.6	5677.3	4824.8	3972.2	3258.2	2861.7	2617.4	2601.1
17.5°	8199.7	7776.1	6806.8	5775.1	4727.0	3635.6	2655.4	2120.5	1892.4	1786.6	1775.7
20°	7985.2	7469.3	6269.2	5025.7	3689.9	2552.2	1832.7	1585.6	1512.3	1468.9	1474.3
22.5°	7778.8	7135.4	5704.5	4194.9	2766.7	1792.0	1420.0	1325.0	1316.8	1322.3	1325.0
25°	7605.1	6828.5	5123.4	3393.9	1973.9	1365.7	1186.5	1159.4	1183.8	1219.1	1224.5
27.5°	7515.5	6578.8	4556.0	2587.5	1428.2	1110.5	1029.0	1039.9	1083.3	1121.3	1126.8
30°	7539.9	6391.4	3969.5	1876.2	1099.6	936.7	909.6	931.3	974.7	1010.0	1015.5
32.5°	7713.7	6296.4	3369.5	1365.7	904.1	817.3	806.4	822.7	860.7	887.8	890.6
35°	8058.5	6318.1	2799.3	1045.3	776.5	727.7	724.9	735.8	754.8	773.8	776.5
37.5°	8566.2	6494.6	2237.3	868.8	703.2	667.9	657.1	657.1	670.6	678.8	684.2
40°	9112.0	6760.7	1792.0	768.4	651.6	613.6	591.9	583.8	594.6	605.5	608.2
42.5°	9562.7	7026.7	1455.3	697.8	610.9	559.3	532.2	526.7	540.3	559.3	564.7
45°	9907.5	7233.1	1213.7	640.8	564.7	507.7	477.9	477.9	502.3	534.9	540.3
47.5°	10222.5	7398.7	1034.5	589.2	521.3	461.6	431.7	437.1	477.9	521.3	529.4
50°	10436.9	7531.8	901.4	543.0	486.0	423.6	396.4	407.3	456.1	507.7	515.9
52.5°	10667.7	7694.7	814.5	502.3	453.4	393.7	369.3	377.4	431.7	488.7	499.6
55°	11305.8	8240.4	811.8	448.0	396.4	353.0	342.1	344.8	399.1	464.3	477.9
57.5°	11827.1	8721.0	866.1	377.4	331.2	309.5	304.1	306.8	355.7	429.0	445.3
60°	9785.3	6777.0	716.8	312.2	276.9	271.5	263.4	268.8	315.0	380.1	393.7
62.5°	5791.4	3874.5	342.1	238.9	236.2	230.8	222.6	233.5	276.9	334.0	342.1
65°	1979.3	1148.5	217.2	195.5	200.9	192.8	184.6	195.5	233.5	266.1	268.8
67.5°	380.1	304.1	173.8	162.9	165.6	149.3	146.6	157.5	179.2	184.6	181.9
70°	198.2	176.5	133.0	133.0	127.6	105.9	105.9	116.8	116.8	108.6	105.9
72.5°	103.2	97.7	86.9	97.7	81.5	65.2	65.2	70.6	65.2	54.3	54.3
75°	40.7	40.7	38.0	48.9	35.3	29.9	27.2	32.6	24.4	19.0	19.0
77.5°	10.9	10.9	10.9	13.6	8.1	8.1	5.4	5.4	2.7	0.0	0.0
80°	0.0	2.7	0.0	2.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	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)