

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: P640781

Luminaire Tested: GWS-SA5E-750-U-SL2-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P640781  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-30)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5E-750-U-SL2-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

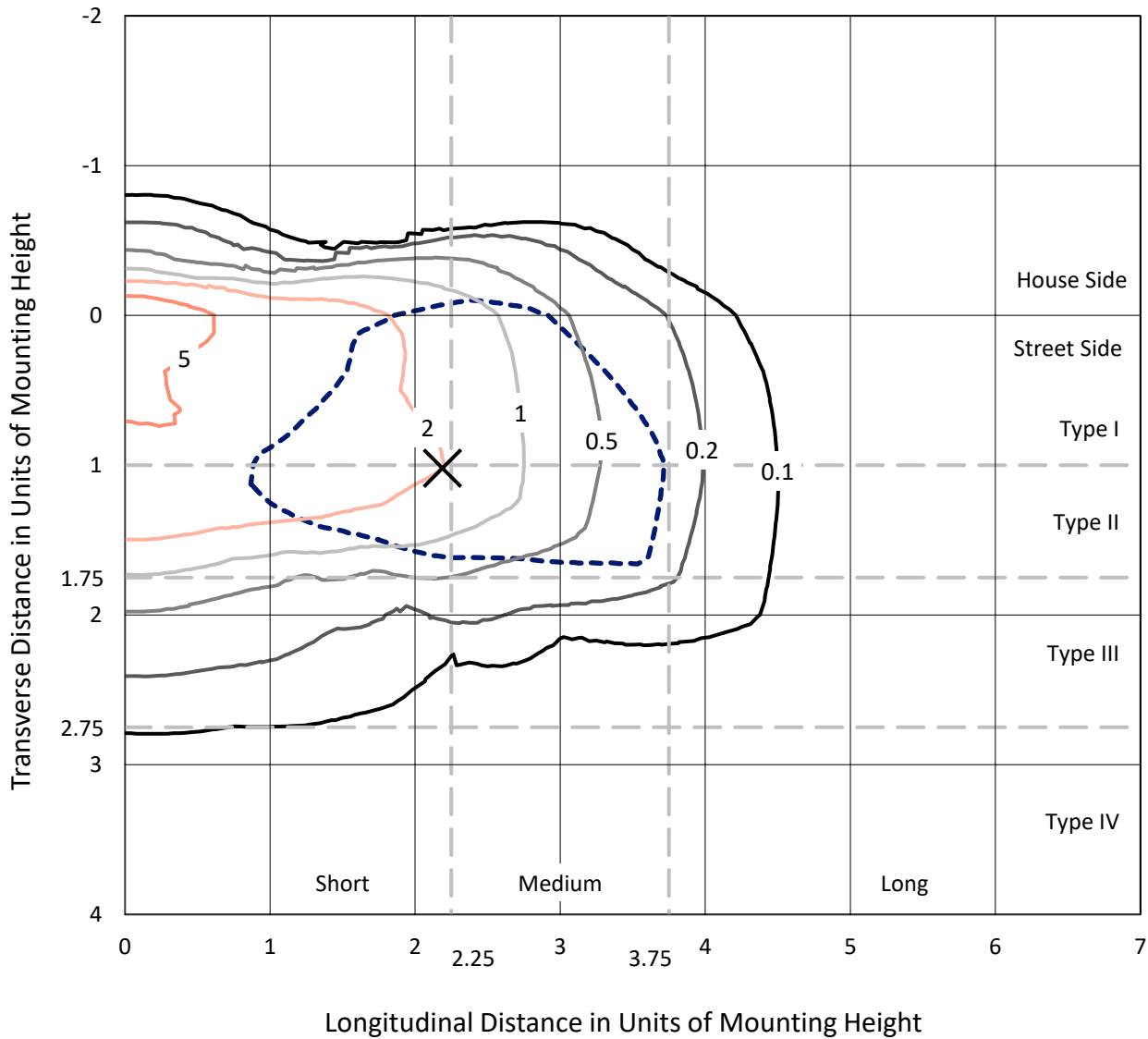
Lumens per Lamp: N/A  
Luminaire Lumens: 30441 lumens  
Efficiency: N/A  
Efficacy: 112.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 269.6  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

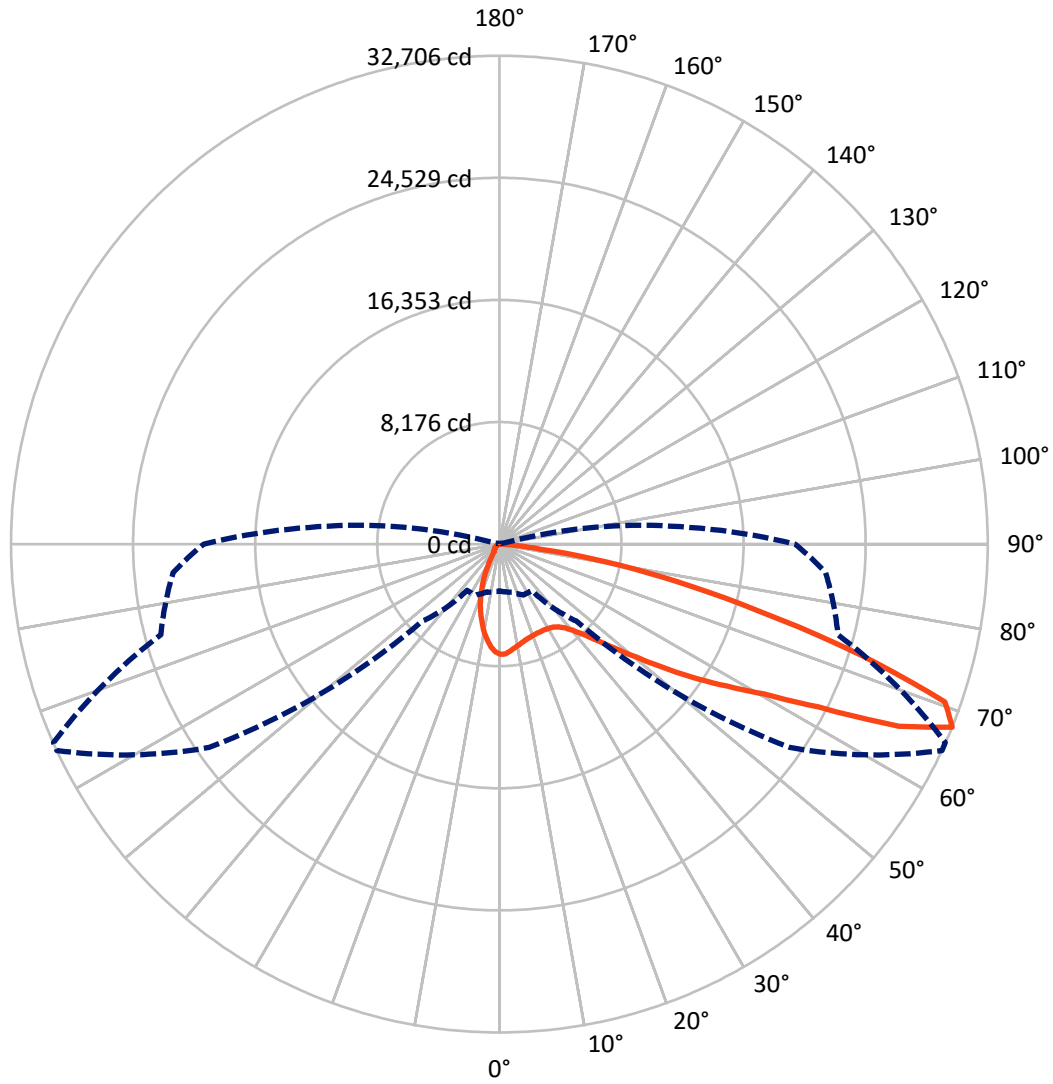
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3801.2	0.0	3801.2
	% Fixture	12.5	0.0	12.5
<b>Street Side</b>	Lumens	26639.8	0.0	26639.8
	% Fixture	87.5	0.0	87.5
<b>Total</b>	Lumens	30441.0	0.0	30441.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	613.2	2.0
10°-20°	1378.4	4.5
20°-30°	1969.7	6.5
30°-40°	2865.6	9.4
40°-50°	4488.1	14.7
50°-60°	7001.5	23.0
60°-70°	7690.8	25.3
70°-80°	4093.0	13.4
80°-90°	340.8	1.1
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°	30441.0	100.0
0°-180°	30441.0	100.0

**Coefficient of Utilization**



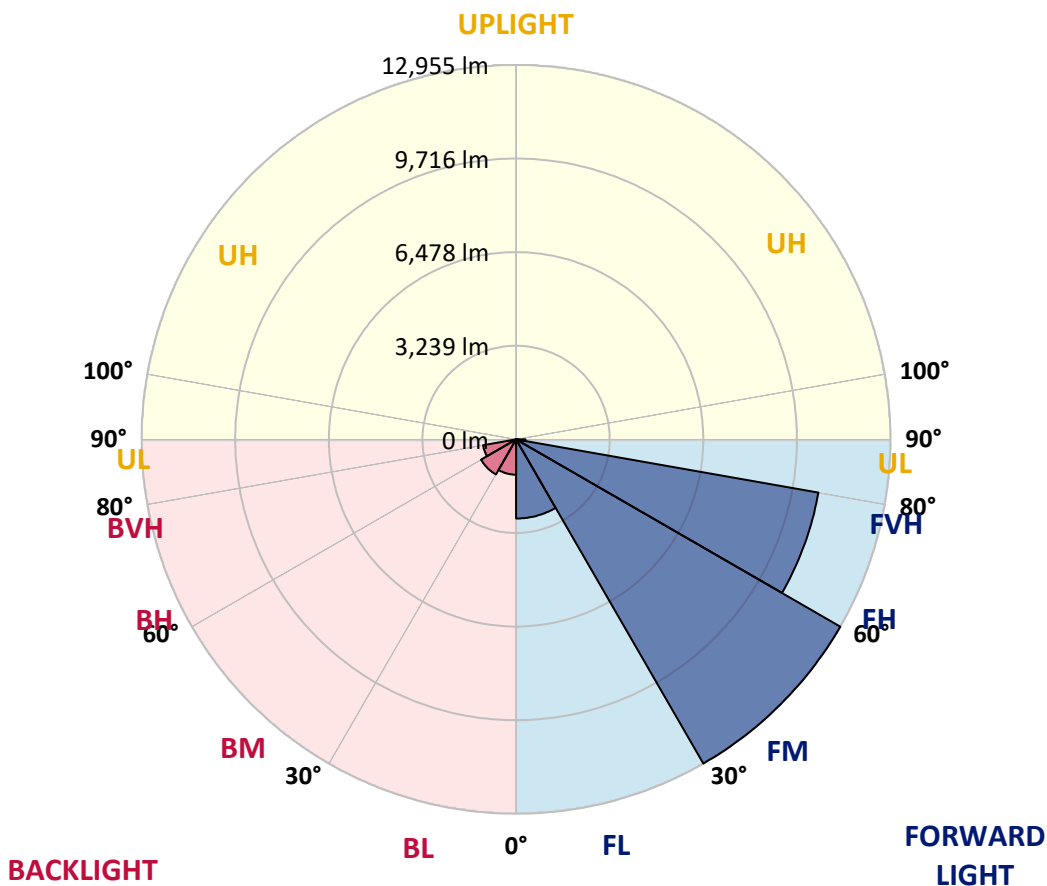
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2739.5	9.0			
FM (30°-60°)	12955.0	42.6			
FH (60°-80°)	10622.7	34.9			G4/12000
FVH (80°-90°)	322.5	1.1			G3/500
BL (0°-30°)	1221.8	4.0	B3/2500		
BM (30°-60°)	1400.1	4.6	B2/2500		
BH (60°-80°)	1161.0	3.8	B3/2500		G3/2500
BVH (80°-90°)	18.2	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B3-U0-G4**  
 Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	7382.9	7382.9	7382.9	7382.9	7382.9	7382.9	7382.9	7382.9	7382.9	7382.9	7382.9
2.5°	7126.9	7148.9	7118.6	7193.0	7206.7	7289.3	7336.1	7369.1	7366.4	7407.7	7407.7
5°	6708.5	6730.5	6714.0	6793.8	6857.1	6986.5	7093.9	7217.7	7223.2	7349.9	7396.7
7.5°	6353.4	6356.1	6356.1	6455.2	6537.8	6697.5	6857.1	7047.1	7069.1	7264.5	7388.4
10°	6061.6	6069.8	6072.6	6185.5	6276.3	6469.0	6672.7	6901.2	6925.9	7190.2	7382.9
12.5°	5860.6	5863.4	5874.4	5992.8	6091.9	6292.8	6499.3	6760.8	6793.8	7104.9	7358.1
15°	5764.3	5758.8	5764.3	5863.4	5962.5	6155.2	6367.1	6647.9	6683.7	7033.3	7360.9
17.5°	5758.8	5750.5	5745.0	5819.3	5882.6	6053.3	6268.0	6573.6	6612.1	7000.3	7391.2
20°	5838.6	5833.1	5805.6	5838.6	5852.4	5992.8	6204.7	6515.8	6554.3	6994.8	7457.2
22.5°	6047.8	6034.0	5992.8	5962.5	5888.2	5970.7	6160.7	6474.5	6518.5	7008.5	7542.6
25°	6358.9	6353.4	6301.1	6226.7	6036.8	6003.8	6163.4	6474.5	6515.8	7025.0	7633.4
27.5°	6826.8	6793.8	6727.7	6598.4	6325.8	6133.1	6218.5	6491.0	6532.3	7047.1	7707.7
30°	7303.1	7300.3	7278.3	7146.2	6741.5	6380.9	6334.1	6535.1	6573.6	7066.3	7776.5
32.5°	7795.8	7804.1	7859.1	7757.3	7314.1	6749.8	6543.3	6625.9	6653.4	7104.9	7837.1
35°	8263.8	8280.3	8426.2	8462.0	8010.5	7308.6	6884.7	6807.6	6810.3	7190.2	7916.9
37.5°	8712.5	8767.5	9001.5	9174.9	8877.6	7985.8	7377.4	7115.9	7093.9	7360.9	8038.1
40°	9221.7	9326.3	9620.9	9915.4	9821.8	8880.4	8049.1	7589.4	7542.6	7674.7	8255.5
42.5°	9786.1	9898.9	10289.8	10702.7	10746.8	9962.2	8888.7	8280.3	8200.5	8203.2	8662.9
45°	10391.7	10543.1	10997.3	11591.9	11858.9	11167.9	9923.7	9213.5	9133.7	9015.3	9318.1
47.5°	11187.2	11319.3	11757.0	12442.5	12954.5	12461.7	11280.8	10413.7	10267.8	10094.4	10336.6
50°	11872.7	11988.3	12365.4	13224.3	14289.6	14129.9	12819.6	11913.9	11773.6	11479.0	11680.0
52.5°	12024.1	12114.9	12461.7	13428.0	15310.8	16235.8	14705.2	13728.0	13628.9	13083.9	13160.9
55°	11344.1	11481.8	11792.8	12866.4	15577.9	18294.8	17152.4	15773.3	15566.9	14697.0	14834.6
57.5°	9626.4	9871.4	10163.2	11558.8	14853.9	19390.4	20571.4	17939.7	17752.5	16249.5	16252.3
60°	7055.3	7253.5	7449.0	8726.2	13136.2	19316.1	23673.7	20373.2	20031.8	17518.6	17471.8
62.5°	5131.1	5233.0	5230.2	5684.4	9020.8	18044.3	25303.4	24039.9	23244.3	18875.7	18608.7
65°	4035.5	4032.8	4151.2	4299.8	5037.6	13929.0	25504.3	29394.0	28535.1	20695.2	20139.2
67.5°	3140.9	3201.5	3319.8	3757.5	3785.0	7289.3	23737.0	32705.5	32689.0	23472.8	21931.2
70°	2422.4	2505.0	2672.9	3311.6	3496.0	4079.6	17760.8	31656.7	31923.8	24714.3	20662.2
72.5°	1555.3	1549.8	1797.6	2675.7	3358.4	3399.7	9821.8	25146.5	25449.3	22385.4	16706.5
75°	869.9	875.4	1015.8	1637.9	3129.9	3198.7	4864.1	17931.5	18171.0	17452.5	12836.1
77.5°	341.3	352.4	476.2	861.6	2064.6	2857.4	2890.4	12227.8	12263.5	10815.6	7872.9
80°	137.6	145.9	242.2	534.0	1258.0	1924.2	2064.6	7204.0	7058.1	4186.9	2290.3
82.5°	41.3	44.0	96.3	302.8	657.9	1368.1	1392.9	2763.8	2609.6	900.2	583.6
85°	2.8	2.8	22.0	93.6	234.0	344.1	927.7	900.2	798.3	225.7	258.8
87.5°	0.0	0.0	2.8	2.8	5.5	11.0	99.1	165.2	167.9	41.3	115.6
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°	7382.9	7382.9	7382.9	7382.9	7382.9	7382.9	7382.9	7382.9	7382.9	7382.9	7382.9
2.5°	7407.7	7308.6	7300.3	7223.2	7146.2	7049.8	6937.0	6854.4	6796.6	6694.7	6675.4
5°	7396.7	7264.5	7140.7	6920.4	6675.4	6411.2	6179.9	5965.2	5830.3	5739.5	5701.0
7.5°	7374.6	7206.7	6920.4	6504.8	6094.6	5632.1	5271.5	4941.2	4715.5	4583.3	4525.5
10°	7358.1	7132.4	6667.2	6036.8	5400.9	4762.3	4214.5	3724.5	3452.0	3237.2	3201.5
12.5°	7325.1	7025.0	6342.4	5489.0	4668.7	3820.8	3121.6	2521.5	2105.9	1918.7	1852.6
15°	7292.1	6912.2	6017.5	4910.9	3870.4	2824.3	1976.5	1398.4	1112.1	1024.0	1018.5
17.5°	7286.6	6810.3	5665.2	4363.1	3033.5	1849.9	1125.9	905.7	845.1	823.1	823.1
20°	7303.1	6725.0	5318.3	3732.7	2210.5	1125.9	839.6	784.5	748.8	729.5	729.5
22.5°	7319.6	6636.9	4985.2	3096.9	1467.2	823.1	740.5	693.7	652.4	630.4	619.4
25°	7330.6	6540.6	4616.4	2458.2	958.0	715.7	649.7	589.1	539.5	512.0	512.0
27.5°	7327.8	6424.9	4244.8	1833.3	743.2	635.9	556.1	492.7	443.2	412.9	415.7
30°	7305.8	6298.3	3859.4	1280.0	649.7	556.1	476.2	410.2	360.6	335.8	333.1
32.5°	7289.3	6163.4	3413.4	900.2	583.6	487.2	404.7	341.3	300.1	280.8	278.0
35°	7270.0	6031.3	2989.5	685.4	525.8	421.2	341.3	289.0	256.0	239.5	239.5
37.5°	7275.5	5893.7	2529.8	589.1	468.0	366.1	291.8	247.7	220.2	203.7	201.0
40°	7360.9	5811.1	2078.3	534.0	415.7	316.6	253.3	214.7	187.2	170.7	167.9
42.5°	7572.8	5813.8	1646.2	492.7	368.9	269.8	220.2	184.4	159.7	140.4	137.6
45°	7996.8	5929.4	1263.5	448.7	319.3	234.0	189.9	156.9	132.1	115.6	112.9
47.5°	8690.5	6273.5	958.0	410.2	278.0	203.7	162.4	132.1	110.1	96.3	93.6
50°	9794.3	6895.7	754.3	363.4	234.0	176.2	137.6	110.1	90.8	77.1	74.3
52.5°	11121.1	7828.8	646.9	322.1	201.0	154.2	118.4	90.8	74.3	63.3	60.6
55°	12646.2	8943.7	597.3	280.8	170.7	132.1	96.3	74.3	60.6	52.3	46.8
57.5°	14044.6	9948.5	594.6	239.5	145.9	112.9	79.8	63.3	52.3	41.3	38.5
60°	15407.2	10788.1	558.8	198.2	126.6	93.6	68.8	52.3	44.0	35.8	33.0
62.5°	16643.2	11470.7	468.0	159.7	107.4	77.1	57.8	46.8	38.5	30.3	30.3
65°	18195.7	12340.6	357.9	129.4	88.1	63.3	49.5	41.3	35.8	27.5	27.5
67.5°	19800.6	12800.3	256.0	107.4	71.6	55.1	44.0	38.5	30.3	24.8	24.8
70°	17934.2	10815.6	184.4	88.1	60.6	46.8	38.5	35.8	30.3	24.8	22.0
72.5°	14006.0	7798.6	137.6	68.8	52.3	44.0	35.8	33.0	27.5	22.0	22.0
75°	10386.2	4547.6	104.6	55.1	41.3	35.8	35.8	33.0	27.5	22.0	19.3
77.5°	5645.9	1585.6	79.8	44.0	33.0	27.5	30.3	30.3	24.8	19.3	16.5
80°	1494.7	434.9	55.1	33.0	27.5	22.0	22.0	27.5	22.0	16.5	16.5
82.5°	434.9	126.6	38.5	27.5	22.0	19.3	19.3	19.3	16.5	13.8	11.0
85°	212.0	46.8	27.5	22.0	19.3	16.5	13.8	13.8	11.0	8.3	8.3
87.5°	93.6	19.3	22.0	19.3	19.3	13.8	11.0	8.3	8.3	5.5	2.8
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)