

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: P639785

Luminaire Tested: GWS-SA5C-750-U-AFL-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639785  
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-SA5C-750-U-AFL-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS  
Light Source: (80) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

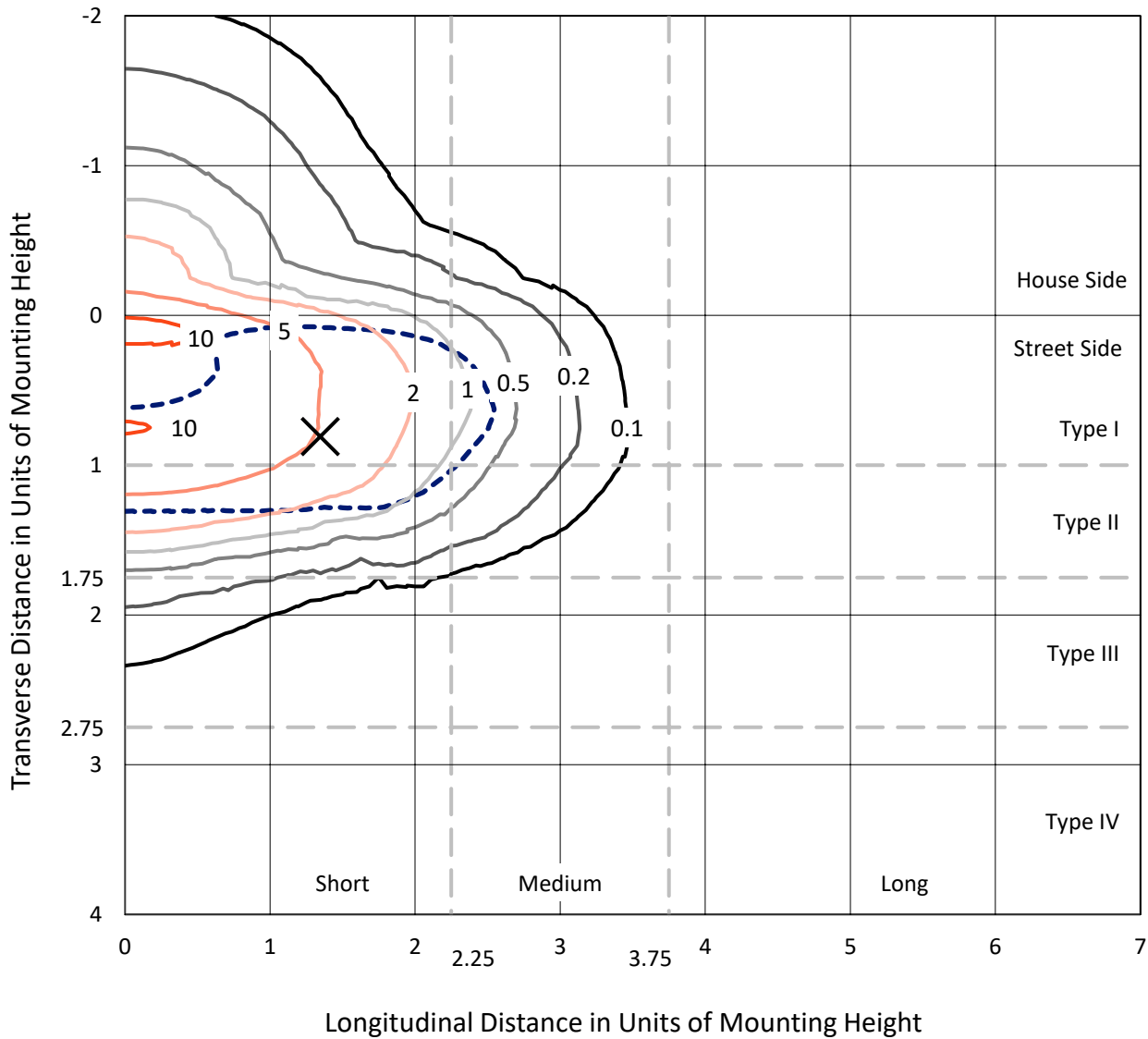
Lumens per Lamp: N/A  
Luminaire Lumens: 24804.3 lumens  
Efficiency: N/A  
Efficacy: 157.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G2  
  
Input Watts (W): 157.5  
Input Voltage (V): 120  
Input Current (Ain): 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

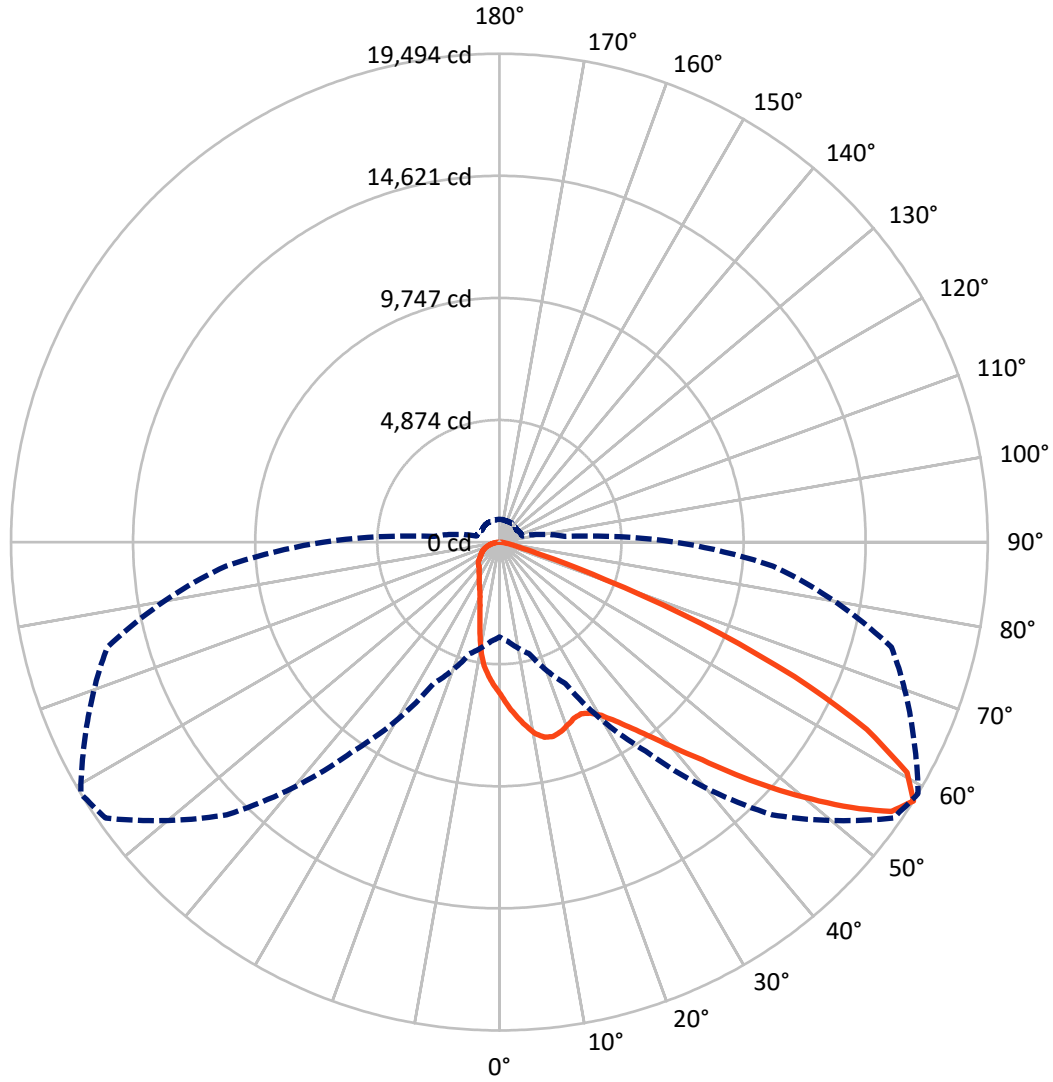
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 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	3849.5	0.0	3849.5
	% Fixture	15.5	0.0	15.5
<b>Street Side</b>	Lumens	20954.8	0.0	20954.8
	% Fixture	84.5	0.0	84.5
<b>Total</b>	Lumens	24804.3	0.0	24804.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	565.4	2.3
10°-20°	1432.6	5.8
20°-30°	2322.3	9.4
30°-40°	3735.8	15.1
40°-50°	5801.3	23.4
50°-60°	6248.8	25.2
60°-70°	3626.6	14.6
70°-80°	946.7	3.8
80°-90°	124.7	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°	24804.3	100.0
0°-180°	24804.3	100.0

**Coefficient of Utilization**



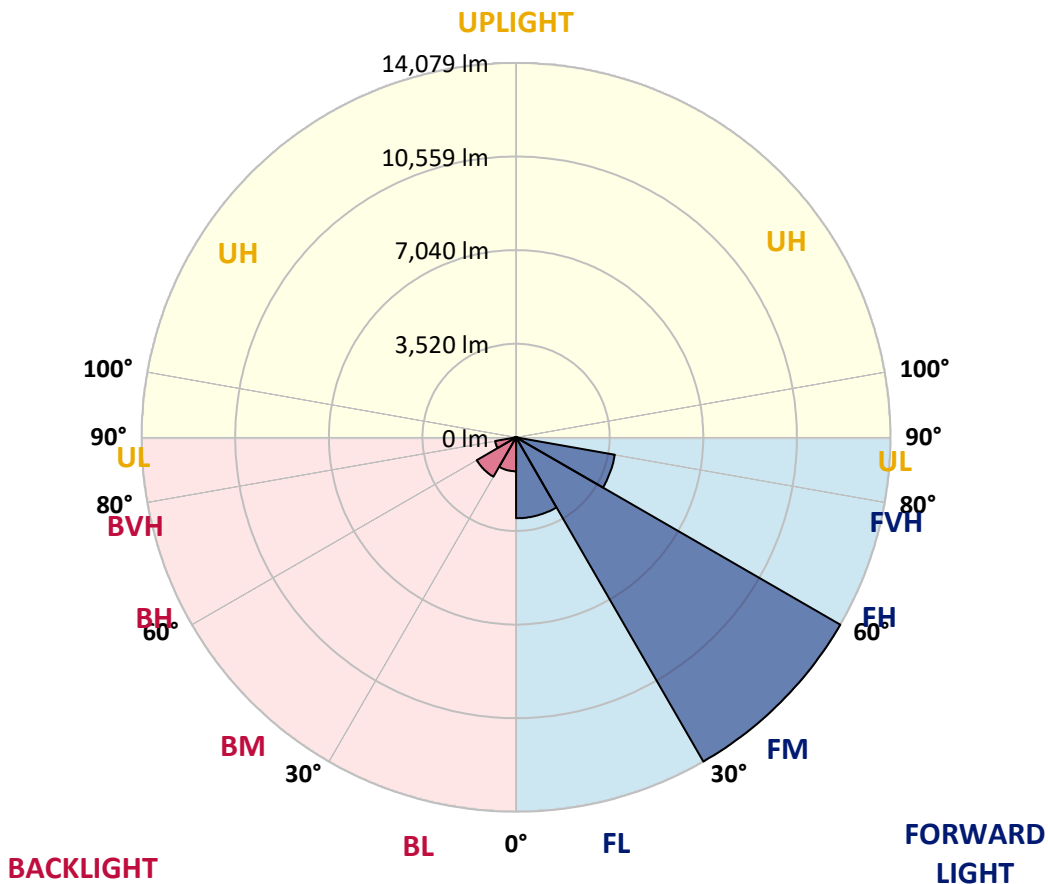
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3043.3	12.3			
FM (30°-60°)	14079.2	56.8			
FH (60°-80°)	3772.6	15.2			G2/5000
FVH (80°-90°)	59.7	0.2			G1/100
BL (0°-30°)	1277.1	5.1	B3/2500		
BM (30°-60°)	1706.7	6.9	B2/2500		
BH (60°-80°)	800.7	3.2	B2/1000		G2/1000
BVH (80°-90°)	65.0	0.3			G1/100
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°	55°	59°	65°	75°	85°
0°	6089.0	6089.0	6089.0	6089.0	6089.0	6089.0	6089.0	6089.0	6089.0	6089.0	6089.0
2.5°	6906.2	6848.6	6888.7	6817.1	6787.4	6708.9	6607.6	6539.5	6434.7	6298.5	6179.8
5°	7592.4	7552.3	7561.0	7484.2	7416.1	7285.1	7077.3	6962.1	6783.9	6509.8	6254.8
7.5°	7571.5	7618.6	7644.8	7711.2	7730.4	7718.2	7531.3	7370.7	7175.1	6763.0	6378.8
10°	6787.4	6876.5	6956.8	7183.8	7459.7	7809.0	7852.6	7756.6	7559.3	7086.0	6527.3
12.5°	5933.5	6001.7	6073.2	6345.6	6768.2	7466.7	7939.9	7999.3	7920.7	7405.6	6694.9
15°	5514.5	5545.9	5614.0	5793.9	6130.9	6906.2	7788.0	8048.2	8189.6	7744.3	6883.5
17.5°	5497.0	5511.0	5544.1	5640.2	5874.2	6473.1	7513.8	7950.4	8400.9	8102.3	7103.5
20°	5858.5	5821.8	5800.8	5799.1	5914.3	6328.2	7248.4	7793.2	8500.4	8469.0	7339.2
22.5°	6359.6	6371.8	6326.4	6214.7	6200.7	6431.2	7115.7	7634.3	8530.1	8793.8	7557.5
25°	7070.3	7131.4	6997.0	6783.9	6679.2	6729.8	7197.8	7585.4	8526.6	9064.5	7693.7
27.5°	7899.8	7946.9	7810.7	7531.3	7314.8	7192.6	7442.3	7730.4	8556.3	9298.5	7775.8
30°	8844.4	8860.2	8673.3	8380.0	8063.9	7802.0	7849.1	8029.0	8708.2	9605.8	7871.8
32.5°	9998.7	10065.0	9782.1	9317.7	8875.9	8540.6	8395.7	8510.9	9036.5	9969.0	8020.2
35°	11463.7	11486.4	11126.7	10461.4	9836.3	9371.8	9068.0	9129.1	9535.9	10477.1	8243.8
37.5°	12845.0	12867.7	12485.2	11867.1	10973.0	10337.4	9897.4	9869.5	10175.0	11194.8	8608.7
40°	13721.6	13786.2	13615.0	13227.4	12373.5	11516.1	10918.9	10822.9	11013.2	12073.1	9116.9
42.5°	14193.0	14221.0	14217.5	14268.1	13760.0	12907.8	12071.4	11879.3	12006.8	13021.3	9630.2
45°	14196.5	14266.4	14453.2	14940.4	14963.1	14432.2	13527.7	13227.4	13110.4	13976.5	10166.3
47.5°	13560.9	13636.0	14149.4	15108.0	15815.2	15935.7	15272.2	14669.7	14177.3	14798.9	10606.3
50°	11636.6	11825.2	12803.1	14498.6	15982.9	17140.6	16936.3	16119.1	15125.5	15434.6	10882.2
52.5°	9965.5	9958.5	10560.9	12776.9	15282.6	17671.4	18546.3	17610.3	16063.2	15837.9	10952.1
55°	7297.3	7337.5	7953.9	9771.7	13414.2	17158.0	19431.6	18982.8	17138.8	16052.7	10924.2
57.5°	3784.0	3983.1	4615.2	6235.6	10192.5	15390.9	19195.9	19494.4	18232.0	16204.6	10960.8
60°	1912.1	1873.7	2100.7	2977.3	5905.6	12020.8	17743.0	18694.7	18429.3	16323.4	10983.5
62.5°	1276.5	1266.0	1203.1	1379.5	2413.2	7119.2	15125.5	16459.6	17058.5	16044.0	10693.7
65°	1105.3	1084.4	969.1	962.1	1171.7	2952.8	11086.6	12939.3	14098.7	14802.4	10000.4
67.5°	995.3	963.9	846.9	789.3	841.7	1297.4	6247.9	8678.6	10410.8	12518.4	8481.2
70°	888.8	873.1	756.1	672.3	667.0	791.0	2301.5	4479.0	6370.1	8540.6	6200.7
72.5°	796.3	768.3	668.8	588.5	548.3	560.5	998.8	1725.2	3296.8	5327.6	3708.9
75°	689.7	668.8	581.5	501.2	452.3	410.4	609.4	798.0	1503.5	2532.0	1751.4
77.5°	532.6	518.6	459.2	398.1	370.2	305.6	370.2	502.9	695.0	1066.9	911.5
80°	309.1	317.8	342.3	310.8	272.4	218.3	241.0	289.9	417.3	578.0	516.9
82.5°	155.4	165.9	221.8	179.9	162.4	127.5	143.2	171.1	218.3	319.6	202.6
85°	12.2	12.2	40.2	45.4	55.9	45.4	57.6	69.8	99.5	127.5	68.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	5.2	8.7	15.7	29.7	19.2
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°	6089.0	6089.0	6089.0	6089.0	6089.0	6089.0	6089.0	6089.0	6089.0	6089.0	6089.0
2.5°	6099.4	6010.4	5903.9	5816.6	5682.1	5610.5	5519.7	5407.9	5362.5	5341.6	5329.4
5°	6111.7	5954.5	5727.5	5518.0	5285.7	5102.4	4898.1	4685.0	4562.8	4533.1	4512.2
7.5°	6157.1	5937.0	5575.6	5229.8	4798.5	4398.6	4009.2	3623.3	3426.0	3350.9	3344.0
10°	6219.9	5930.1	5421.9	4847.4	4119.3	3487.1	3031.4	2729.3	2601.8	2559.9	2545.9
12.5°	6298.5	5924.8	5219.4	4316.6	3335.2	2738.0	2477.8	2428.9	2446.4	2442.9	2442.9
15°	6398.0	5931.8	4974.9	3715.9	2697.9	2376.6	2381.8	2439.4	2493.6	2502.3	2502.3
17.5°	6506.3	5924.8	4620.4	3113.5	2315.4	2291.0	2371.3	2451.6	2500.5	2507.5	2507.5
20°	6623.3	5891.6	4173.4	2545.9	2147.8	2236.9	2324.2	2387.0	2416.7	2423.7	2423.7
22.5°	6693.1	5797.3	3688.0	2154.8	2041.3	2151.3	2208.9	2273.5	2277.0	2221.2	2219.4
25°	6682.7	5621.0	3134.4	1903.3	1927.8	2023.8	2097.2	2051.8	1995.9	1964.5	1959.2
27.5°	6616.3	5355.6	2570.4	1713.0	1793.3	1901.6	1878.9	1840.5	1826.5	1791.6	1788.1
30°	6532.5	5029.0	2064.0	1564.6	1653.6	1753.2	1718.2	1714.8	1700.8	1662.4	1662.4
32.5°	6452.2	4692.0	1681.6	1454.6	1564.6	1571.6	1620.5	1624.0	1617.0	1550.6	1543.6
35°	6429.5	4355.0	1423.1	1367.3	1477.3	1473.8	1543.6	1541.9	1421.4	1328.8	1327.1
37.5°	6497.6	4012.7	1269.5	1295.7	1356.8	1402.2	1458.1	1356.8	1316.6	1260.7	1257.3
40°	6642.5	3696.7	1190.9	1253.8	1280.0	1346.3	1259.0	1266.0	1255.5	1213.6	1208.4
42.5°	6834.6	3427.8	1147.2	1239.8	1236.3	1253.8	1157.7	1185.7	1201.4	1169.9	1164.7
45°	7019.7	3193.8	1124.5	1187.4	1204.9	1103.6	1084.4	1110.6	1135.0	1122.8	1117.6
47.5°	7155.9	2991.2	1112.3	1115.8	1164.7	1053.0	1021.5	1033.7	1063.4	1068.7	1066.9
50°	7197.8	2818.3	1098.4	1056.4	1046.0	1002.3	977.9	974.4	1009.3	1033.7	1037.2
52.5°	7117.5	2664.7	1061.7	1004.1	953.4	960.4	951.7	934.2	969.1	1002.3	1005.8
55°	6998.7	2577.4	1004.1	953.4	894.0	922.0	925.5	909.8	932.5	955.2	955.2
57.5°	7007.5	2628.0	948.2	906.3	841.7	878.3	897.5	890.6	890.6	908.0	909.8
60°	7065.1	2701.4	911.5	846.9	789.3	827.7	871.3	864.4	848.6	871.3	871.3
62.5°	6899.2	2603.6	887.1	789.3	733.4	778.8	831.2	827.7	810.2	846.9	850.4
65°	6410.3	2341.6	859.1	717.7	677.5	729.9	775.3	787.5	771.8	820.7	829.4
67.5°	5373.0	1969.7	805.0	649.6	621.6	670.5	714.2	731.7	719.4	777.1	784.0
70°	4005.8	1594.3	719.4	574.5	553.5	597.2	637.4	644.3	646.1	714.2	721.2
72.5°	2554.7	1239.8	605.9	490.7	475.0	508.1	537.8	565.8	578.0	642.6	640.9
75°	1424.9	922.0	487.2	415.6	387.7	413.8	448.8	481.9	516.9	611.2	621.6
77.5°	820.7	647.8	385.9	333.5	300.3	328.3	358.0	405.1	509.9	592.0	581.5
80°	462.7	420.8	291.6	244.5	223.5	244.5	267.2	356.2	401.6	436.5	441.8
82.5°	216.5	235.7	199.1	150.2	150.2	164.1	185.1	275.9	303.8	248.0	216.5
85°	78.6	106.5	97.8	76.8	68.1	66.4	115.2	157.2	97.8	87.3	75.1
87.5°	21.0	29.7	27.9	19.2	10.5	8.7	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)