

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: P639375

Luminaire Tested: GWS-SA5B-760-U-T2R-W

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P639375  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-11)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SA5B-760-U-T2R-W  
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS  
Light Source: (80) 5700K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18266.3 lumens  
Efficiency: N/A  
Efficacy: 157.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 115.7  
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

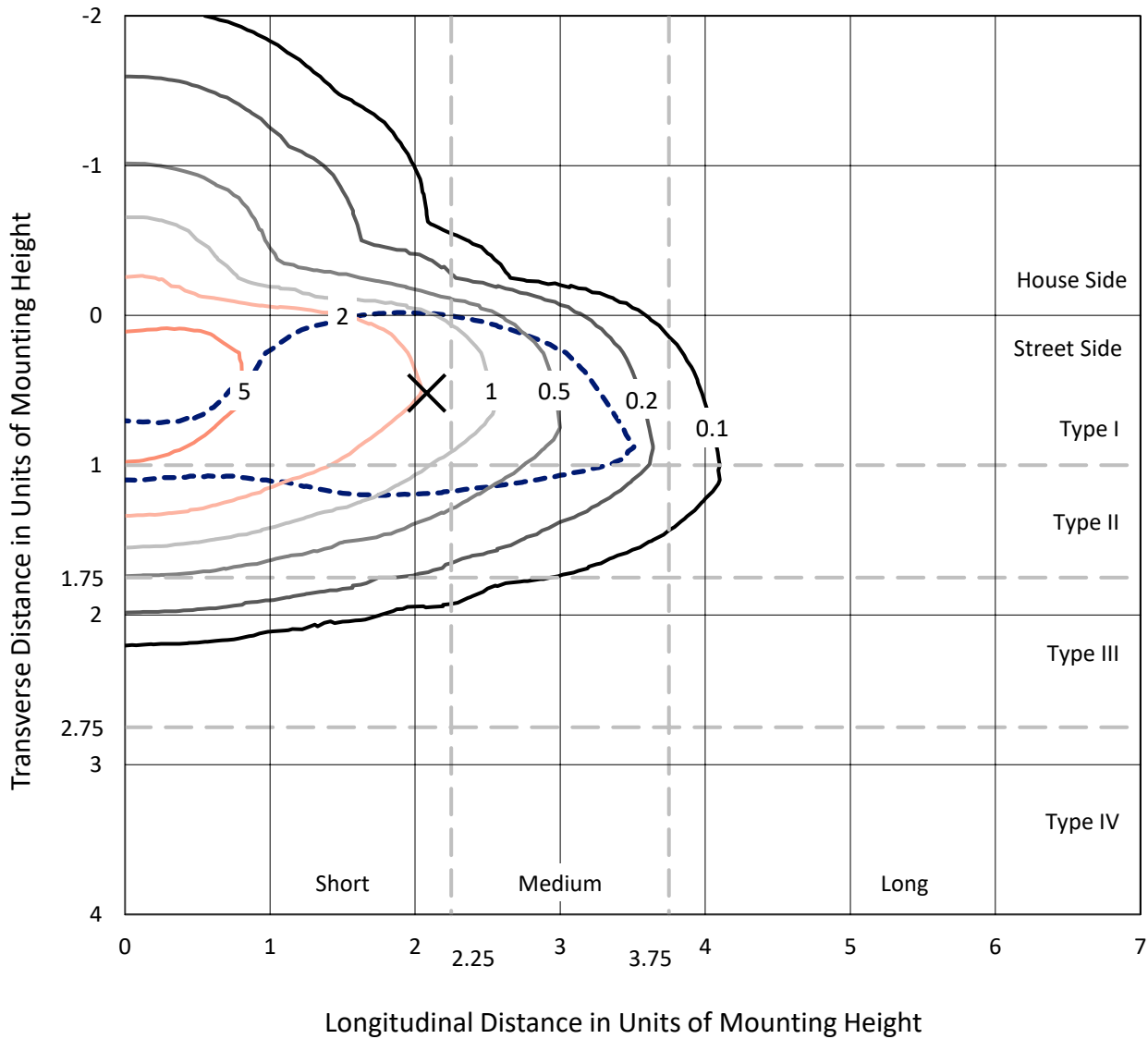


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### Iso-Footcandle Lines of Horizontal Illumination

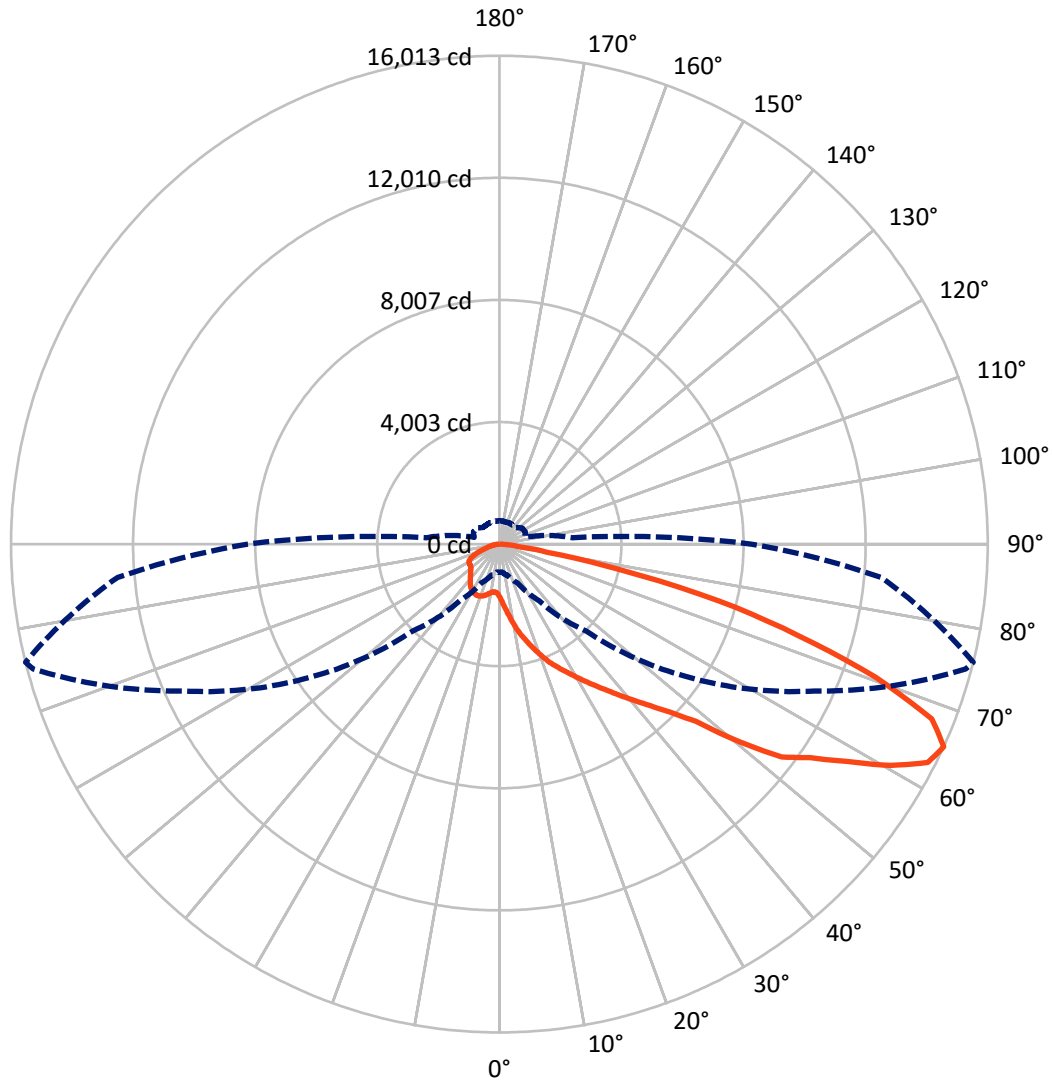
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.2 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral    - - - Horizontal Cone Through 65-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3053.2	0.0	3053.2
	% Fixture	16.7	0.0	16.7
<b>Street Side</b>	Lumens	15213.1	0.0	15213.1
	% Fixture	83.3	0.0	83.3
<b>Total</b>	Lumens	18266.3	0.0	18266.3
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.5	1.1
10°-20°	782.7	4.3
20°-30°	1525.5	8.4
30°-40°	2551.2	14.0
40°-50°	3652.9	20.0
50°-60°	4324.5	23.7
60°-70°	3595.8	19.7
70°-80°	1471.5	8.1
80°-90°	156.7	0.9
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°	18266.3	100.0
0°-180°	18266.3	100.0

**Coefficient of Utilization**



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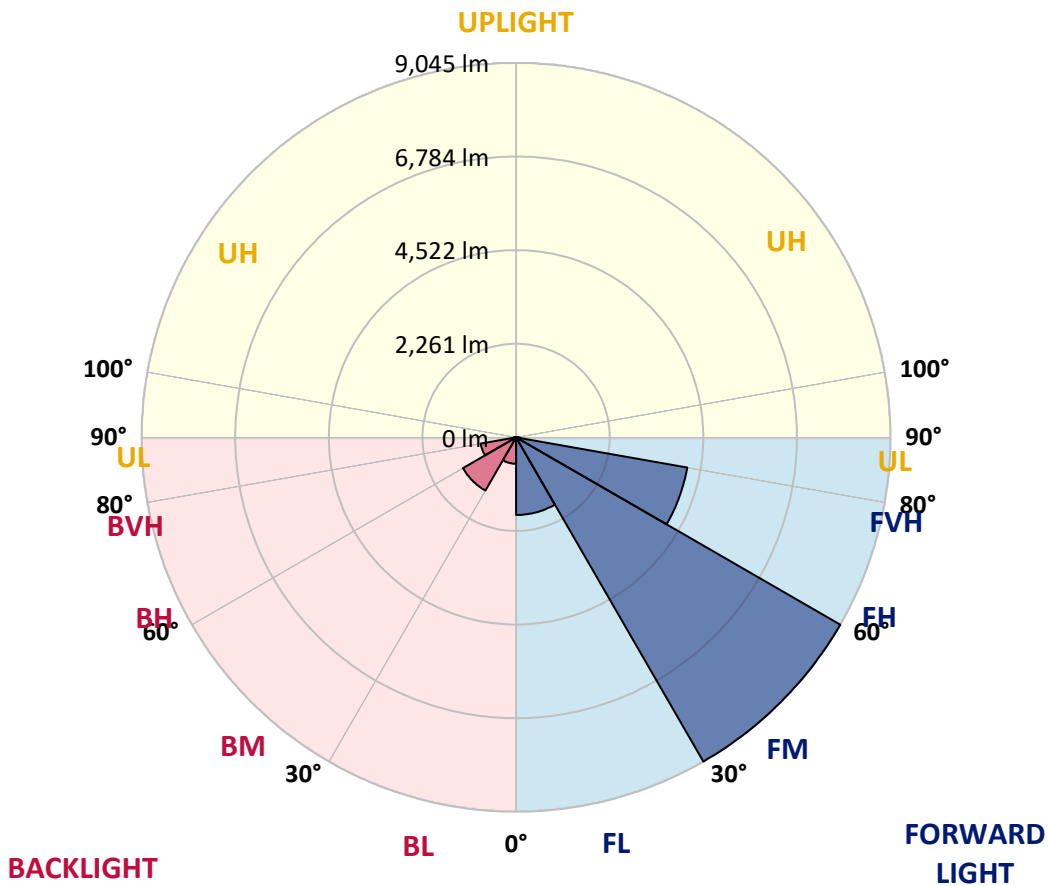
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1875.0	10.3			
FM (30°-60°)	9044.8	49.5			
FH (60°-80°)	4199.9	23.0			G2/5000
FVH (80°-90°)	93.4	0.5			G1/100
BL (0°-30°)	638.7	3.5	B2/1000		
BM (30°-60°)	1483.8	8.1	B2/2500		
BH (60°-80°)	867.5	4.7	B2/1000		G2/1000
BVH (80°-90°)	63.2	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1729.8	1729.8	1729.8	1729.8	1729.8	1729.8	1729.8	1729.8	1729.8	1729.8	1729.8
2.5°	2424.5	2433.5	2403.9	2393.7	2324.3	2230.6	2152.2	2034.1	1924.9	1908.2	1810.7
5°	3079.4	3040.9	3007.5	2985.7	2889.3	2782.8	2617.1	2394.9	2162.5	2134.3	1923.7
7.5°	3468.5	3462.1	3421.0	3408.1	3333.7	3227.1	3056.3	2780.2	2442.5	2396.2	2076.5
10°	3780.5	3776.7	3756.1	3767.7	3699.6	3595.6	3430.0	3144.9	2749.4	2703.1	2247.3
12.5°	4052.8	4059.2	4055.3	4097.7	4063.1	3982.2	3810.1	3496.7	3056.3	3006.2	2455.3
15°	4251.8	4257.0	4276.2	4368.7	4387.9	4371.2	4196.6	3842.2	3359.3	3287.4	2669.7
17.5°	4308.3	4318.6	4364.8	4513.8	4617.8	4687.2	4557.5	4194.0	3657.3	3578.9	2888.1
20°	4384.1	4395.6	4441.9	4597.3	4750.1	4908.0	4884.9	4551.0	3957.8	3893.5	3108.9
22.5°	4734.7	4725.7	4705.1	4779.6	4888.8	5085.2	5143.0	4893.9	4268.5	4206.9	3352.9
25°	5410.1	5393.4	5262.4	5194.4	5158.4	5277.9	5380.6	5205.9	4571.6	4479.1	3580.2
27.5°	6154.9	6145.9	5979.0	5817.2	5596.3	5545.0	5605.3	5478.2	4865.6	4771.9	3778.0
30°	6859.9	6833.0	6658.3	6455.4	6160.1	5939.2	5850.6	5745.3	5188.0	5090.4	4009.1
32.5°	7490.5	7455.8	7250.3	7025.6	6716.1	6455.4	6190.9	6029.1	5552.7	5439.7	4245.4
35°	8008.0	7973.3	7762.7	7523.8	7183.5	6990.9	6628.8	6337.3	5923.8	5809.5	4524.1
37.5°	8408.6	8376.5	8156.9	7921.9	7625.3	7472.5	7157.9	6684.0	6351.4	6232.0	4819.4
40°	8633.3	8610.2	8434.3	8248.1	7999.0	7866.7	7725.5	7121.9	6830.4	6711.0	5167.4
42.5°	8701.4	8686.0	8562.7	8466.4	8298.2	8198.0	8278.9	7636.8	7341.5	7237.5	5559.1
45°	8530.6	8530.6	8494.7	8543.5	8551.2	8549.9	8833.7	8218.6	7969.4	7855.2	6111.3
47.5°	8094.0	8122.3	8174.9	8415.0	8668.0	8879.9	9482.2	8994.2	8777.2	8683.4	6893.3
50°	7295.3	7372.3	7552.1	8020.8	8558.9	9098.2	10096.0	10140.9	10347.7	10182.0	8043.9
52.5°	6125.4	6113.8	6572.3	7240.0	8060.6	9107.2	10433.7	11152.8	11708.9	11594.6	8899.2
55°	4868.2	4849.0	5276.6	6197.3	7296.5	8763.0	10636.6	11616.4	12464.0	12361.2	9668.4
57.5°	3727.9	3703.5	4083.6	4914.4	6217.9	8032.4	10598.1	12168.6	13502.8	13450.2	10713.7
60°	2565.7	2536.2	2891.9	3618.7	4941.4	6915.2	10171.8	12452.4	14718.9	14736.9	11832.2
62.5°	1541.0	1524.3	1782.4	2346.1	3554.5	5530.8	9174.0	12280.3	15687.2	15768.1	12551.3
65°	929.7	918.2	1069.7	1399.7	2255.0	4036.1	7635.6	11400.7	15827.2	16013.4	12568.0
67.5°	676.7	678.0	721.7	852.7	1315.0	2606.8	5729.9	9823.8	15097.8	15290.4	11775.7
70°	588.1	590.7	613.8	643.4	794.9	1492.2	3725.3	7755.0	12941.7	13090.6	9876.4
72.5°	522.6	522.6	538.1	553.5	621.5	909.2	1995.6	5420.4	10214.1	10253.9	7538.0
75°	459.7	455.9	463.6	471.3	539.3	635.7	970.8	3776.7	7544.4	7451.9	4872.1
77.5°	366.0	362.1	363.4	371.1	432.8	454.6	491.8	2359.0	4251.8	4013.0	2152.2
80°	260.7	258.1	272.2	291.5	319.8	278.7	308.2	1141.6	1686.1	1569.2	834.7
82.5°	155.4	160.5	182.3	197.8	220.9	174.6	199.0	381.4	597.1	581.7	339.0
85°	21.8	23.1	65.5	75.8	95.0	68.1	105.3	172.1	238.9	255.5	119.4
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	9.0	30.8	68.1	69.3	29.5
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°	1729.8	1729.8	1729.8	1729.8	1729.8	1729.8	1729.8	1729.8	1729.8	1729.8	1729.8
2.5°	1760.6	1700.2	1614.2	1542.3	1481.9	1433.1	1392.0	1361.2	1352.2	1339.4	1339.4
5°	1824.8	1715.6	1561.5	1452.4	1389.5	1352.2	1326.5	1313.7	1307.3	1299.6	1295.7
7.5°	1913.4	1760.6	1552.5	1442.1	1393.3	1370.2	1353.5	1345.8	1340.7	1332.9	1332.9
10°	2035.4	1827.3	1580.8	1478.1	1439.5	1416.4	1397.2	1384.3	1372.8	1361.2	1358.6
12.5°	2167.6	1914.7	1632.2	1526.9	1485.8	1457.5	1430.5	1411.3	1397.2	1383.0	1379.2
15°	2314.0	2004.6	1687.4	1574.4	1523.0	1484.5	1452.4	1422.8	1403.6	1383.0	1380.5
17.5°	2457.9	2095.7	1733.6	1606.5	1541.0	1493.5	1447.2	1408.7	1384.3	1361.2	1354.8
20°	2629.9	2186.9	1765.7	1615.5	1537.1	1474.2	1419.0	1370.2	1343.2	1316.3	1312.4
22.5°	2787.9	2271.7	1781.1	1602.6	1507.6	1433.1	1368.9	1316.3	1286.7	1259.8	1254.6
25°	2940.7	2346.1	1774.7	1571.8	1462.6	1376.6	1309.8	1257.2	1228.9	1200.7	1193.0
27.5°	3088.4	2396.2	1749.0	1524.3	1406.1	1313.7	1249.5	1202.0	1177.6	1153.2	1142.9
30°	3233.5	2442.5	1709.2	1462.6	1334.2	1248.2	1195.5	1162.2	1137.8	1112.1	1104.4
32.5°	3379.9	2475.8	1648.8	1390.7	1261.0	1190.4	1158.3	1133.9	1108.2	1082.5	1074.8
35°	3527.6	2490.0	1575.7	1308.5	1199.4	1153.2	1141.6	1113.4	1078.7	1047.9	1037.6
37.5°	3703.5	2502.8	1484.5	1227.6	1145.5	1135.2	1132.6	1090.2	1049.2	1006.8	995.2
40°	3915.4	2519.5	1390.7	1154.5	1101.8	1128.8	1118.5	1060.7	978.5	937.4	924.6
42.5°	4174.8	2550.3	1293.1	1087.7	1069.7	1104.4	1092.8	988.8	933.6	910.5	904.0
45°	4556.2	2663.3	1195.5	1035.0	1045.3	1069.7	1051.7	946.4	924.6	909.2	901.5
47.5°	5235.5	2836.7	1110.8	995.2	1026.0	1038.9	969.5	934.9	918.2	897.6	888.6
50°	5941.8	2912.5	1042.7	970.8	1004.2	1010.6	924.6	919.5	907.9	886.1	877.1
52.5°	6419.5	2902.2	1001.6	961.8	986.2	961.8	904.0	902.8	895.1	869.4	859.1
55°	6958.8	2920.2	983.7	964.4	978.5	879.6	878.4	882.2	878.4	850.1	845.0
57.5°	7686.9	2975.4	974.7	973.4	973.4	839.8	854.0	859.1	851.4	838.6	834.7
60°	8386.8	2979.2	958.0	983.7	969.5	815.4	825.7	830.8	821.9	819.3	818.0
62.5°	8650.0	2794.3	920.7	976.0	954.1	788.5	796.2	798.7	789.8	796.2	794.9
65°	8258.4	2401.4	859.1	938.7	906.6	764.1	758.9	765.4	749.9	766.6	767.9
67.5°	7332.5	1908.2	765.4	868.1	839.8	737.1	726.8	726.8	701.1	726.8	725.5
70°	5912.2	1348.4	627.9	755.1	766.6	705.0	699.9	670.3	629.2	667.8	663.9
72.5°	4481.7	968.2	494.4	597.1	660.1	660.1	661.3	611.3	563.7	581.7	566.3
75°	2839.3	681.9	395.5	457.2	517.5	579.2	608.7	516.2	473.9	466.1	458.4
77.5°	1279.0	448.2	308.2	350.6	367.3	457.2	556.0	444.3	386.5	369.8	364.7
80°	535.5	278.7	219.6	247.8	226.0	384.0	490.5	345.4	283.8	260.7	244.0
82.5°	235.0	165.7	140.0	133.6	141.3	285.1	366.0	229.9	177.2	240.1	242.7
85°	98.9	87.3	71.9	65.5	57.8	109.2	172.1	89.9	110.4	62.9	51.4
87.5°	23.1	25.7	19.3	12.8	7.7	1.3	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)