

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: P631777

Luminaire Tested: GWS-SA2B-735-U-T1-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P631777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-10)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA2B-735-U-T1-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: (32) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6794.2 lumens
Efficiency: N/A
Efficacy: 146.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Medium
BUG Rating: B3 - U0 - G3

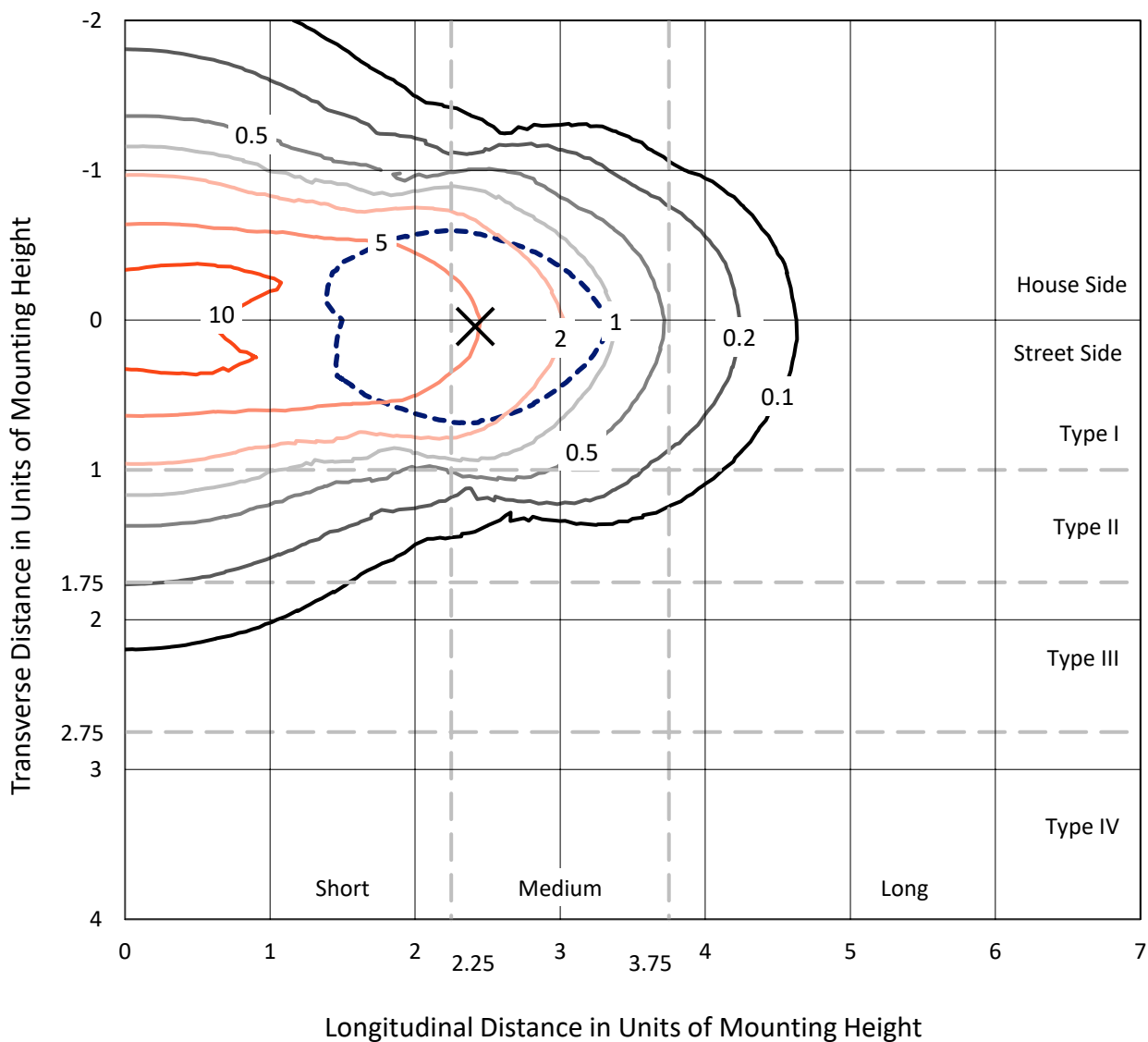
Input Watts (W): 46.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

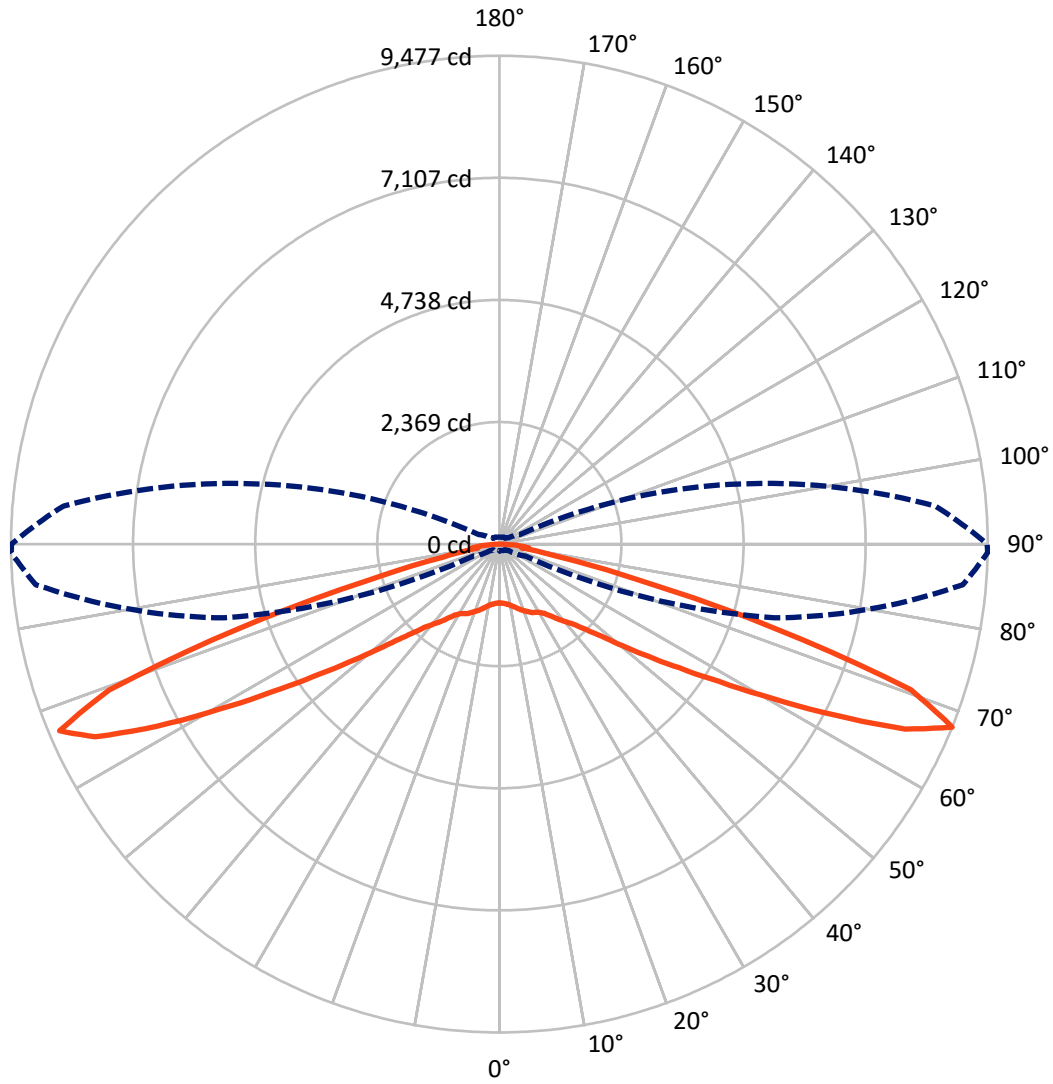
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.4 fc
 Type I - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 89-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3367.3	0.0	3367.3
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	3426.9	0.0	3426.9
	% Fixture	50.4	0.0	50.4
Total	Lumens	6794.2	0.0	6794.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	114.4	1.7
10°-20°	372.5	5.5
20°-30°	629.6	9.3
30°-40°	864.1	12.7
40°-50°	1101.9	16.2
50°-60°	1382.5	20.3
60°-70°	1667.4	24.5
70°-80°	603.2	8.9
80°-90°	58.7	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°	6794.2	100.0
0°-180°	6794.2	100.0

Coefficient of Utilization



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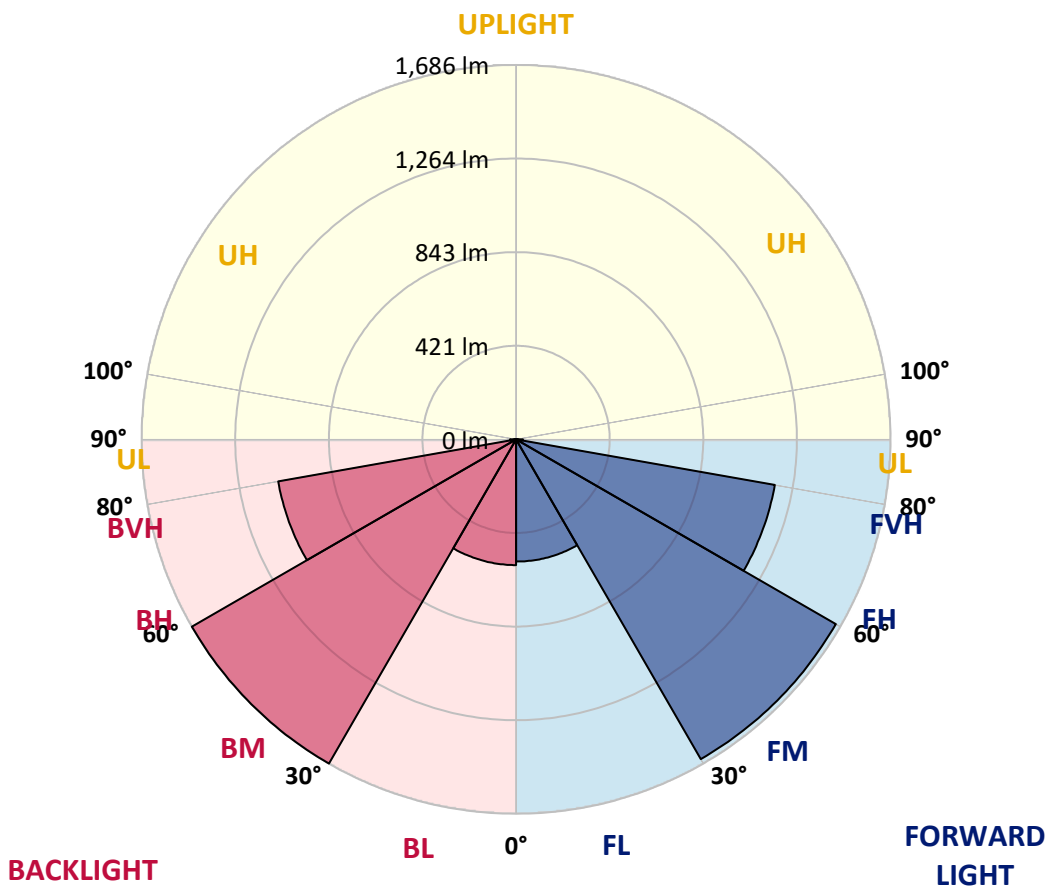
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	550.3	8.1			
FM (30°-60°)	1662.7	24.5			
FH (60°-80°)	1183.0	17.4			G1/1800
FVH (80°-90°)	31.0	0.5			G1/100
BL (0°-30°)	566.2	8.3	B2/1000		
BM (30°-60°)	1685.8	24.8	B2/2500		
BH (60°-80°)	1087.6	16.0	B3/2500		G3/2500
BVH (80°-90°)	27.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	89°	
0°	1140.4	1140.4	1140.4	1140.4	1140.4	1140.4	1140.4	1140.4	1140.4	1140.4	1140.4	1140.4
2.5°	1143.8	1142.8	1140.4	1147.7	1146.2	1146.7	1149.6	1147.7	1144.3	1138.4	1138.4	1146.7
5°	1176.0	1175.5	1170.1	1174.5	1169.6	1166.2	1165.7	1160.8	1156.9	1150.6	1150.6	1159.4
7.5°	1207.2	1206.7	1202.3	1210.1	1206.2	1202.3	1197.9	1188.2	1178.9	1169.6	1169.6	1179.4
10°	1231.1	1230.6	1229.6	1240.9	1241.8	1243.3	1241.4	1224.8	1208.7	1197.4	1197.4	1207.2
12.5°	1244.8	1246.2	1248.7	1269.2	1279.4	1289.2	1291.6	1278.0	1251.1	1235.0	1235.0	1246.7
15°	1235.5	1238.4	1250.6	1287.7	1316.0	1338.0	1347.2	1336.0	1301.4	1274.5	1274.5	1287.7
17.5°	1191.1	1193.5	1217.4	1274.1	1336.5	1387.3	1402.4	1395.6	1357.0	1324.3	1324.3	1337.0
20°	1129.6	1135.0	1160.8	1239.9	1333.1	1421.4	1461.9	1459.5	1417.5	1367.3	1367.3	1382.4
22.5°	1074.0	1080.3	1107.7	1195.0	1310.2	1430.2	1521.9	1528.3	1472.6	1410.2	1410.2	1422.4
25°	1011.5	1017.4	1052.5	1141.8	1270.6	1423.4	1573.2	1602.0	1535.1	1459.5	1459.5	1470.7
27.5°	947.6	952.0	986.6	1081.8	1218.9	1410.7	1613.7	1683.0	1596.6	1493.6	1493.6	1501.4
30°	891.5	897.3	929.1	1021.8	1162.3	1385.3	1646.8	1769.3	1667.3	1532.2	1532.2	1538.5
32.5°	837.3	842.2	876.9	962.7	1102.3	1346.3	1676.6	1870.8	1772.3	1603.9	1603.9	1603.9
35°	769.0	777.8	816.8	906.1	1045.7	1294.5	1698.1	1988.9	1915.7	1709.8	1709.8	1710.3
37.5°	706.1	711.0	751.9	842.2	986.2	1236.0	1700.0	2111.4	2097.2	1844.5	1844.5	1845.4
40°	634.3	640.7	684.6	773.9	917.8	1174.5	1681.5	2225.6	2287.5	1983.1	1983.1	1977.7
42.5°	561.6	570.9	612.9	700.2	844.2	1099.4	1632.2	2334.4	2529.1	2143.6	2143.6	2130.4
45°	491.4	497.2	539.2	621.7	759.7	1009.6	1553.2	2438.8	2816.0	2387.6	2387.6	2368.5
47.5°	412.3	414.8	458.2	537.2	672.4	909.5	1440.0	2532.0	3131.2	2710.6	2710.6	2677.9
50°	342.1	345.5	379.6	447.5	565.5	791.0	1298.9	2586.7	3532.8	3151.2	3151.2	3094.6
52.5°	276.7	280.1	307.4	361.6	467.5	655.8	1124.2	2574.0	3940.2	3698.2	3698.2	3615.7
55°	223.5	225.9	244.5	286.9	367.9	521.6	917.8	2460.3	4392.6	4412.6	4412.6	4235.0
57.5°	188.8	189.8	202.5	228.4	287.4	402.1	708.5	2191.9	4866.9	5324.1	5324.1	5032.3
60°	168.8	169.3	175.2	191.3	226.9	306.9	519.2	1764.4	5358.2	6464.4	6464.4	6064.3
62.5°	156.1	156.1	161.0	170.3	188.4	236.2	381.6	1267.2	5711.0	7705.3	7705.3	7307.6
65°	143.9	143.9	147.4	155.2	164.9	192.7	286.4	817.3	5884.3	8742.7	8742.7	8654.4
67.5°	128.3	128.8	131.3	139.6	148.3	161.0	217.1	552.9	5524.6	9029.6	9029.6	9476.6
70°	113.7	114.2	117.6	123.0	130.3	139.1	169.8	381.1	4021.2	7520.4	7520.4	8473.3
72.5°	97.6	99.5	102.0	107.8	112.2	118.6	138.6	246.9	2339.7	4837.6	4837.6	5601.2
75°	80.0	82.5	85.4	91.2	94.2	96.6	114.2	176.2	1125.7	2451.5	2451.5	2791.6
77.5°	62.0	64.4	67.8	73.2	75.1	78.1	87.3	127.4	539.2	1086.7	1086.7	1171.6
80°	41.5	42.5	45.4	51.7	55.1	57.1	64.4	86.9	234.2	436.2	436.2	432.3
82.5°	25.4	25.9	26.8	30.7	32.2	34.2	42.0	53.2	111.7	495.8	495.8	568.5
85°	9.3	8.8	8.3	10.7	12.7	14.6	19.5	26.8	48.8	340.6	340.6	381.1
87.5°	0.0	0.0	0.0	0.5	1.0	1.0	2.0	3.9	11.7	127.4	127.4	87.3
90°	0.0	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°	1140.4	1140.4	1140.4	1140.4	1140.4	1140.4	1140.4	1140.4	1140.4	1140.4	1140.4
2.5°	1144.3	1138.9	1145.7	1150.6	1161.3	1165.2	1166.2	1162.8	1162.8	1156.9	1157.9
5°	1157.4	1154.0	1165.2	1173.5	1189.1	1195.0	1198.9	1196.5	1197.9	1194.0	1195.0
7.5°	1177.4	1174.5	1194.0	1210.1	1226.2	1233.1	1236.5	1234.5	1235.0	1230.1	1231.6
10°	1205.2	1206.2	1229.6	1250.6	1272.1	1278.9	1280.4	1274.5	1269.7	1260.9	1261.4
12.5°	1243.3	1248.2	1281.4	1304.8	1326.8	1336.5	1325.8	1304.3	1284.3	1269.2	1267.2
15°	1284.8	1293.6	1341.4	1371.2	1395.1	1390.2	1358.5	1310.2	1270.6	1248.2	1243.8
17.5°	1334.6	1347.7	1407.8	1443.4	1463.9	1432.6	1366.3	1294.1	1238.9	1208.7	1202.8
20°	1381.4	1402.4	1478.0	1524.4	1526.8	1456.5	1362.9	1261.4	1192.1	1155.0	1147.2
22.5°	1424.3	1451.2	1551.7	1610.7	1579.0	1467.3	1341.9	1215.0	1135.5	1092.0	1085.2
25°	1471.2	1509.2	1637.6	1692.7	1631.2	1462.9	1298.0	1157.4	1067.2	1022.8	1017.9
27.5°	1503.4	1551.2	1723.9	1776.6	1674.2	1438.0	1241.4	1094.5	1004.7	962.7	955.9
30°	1540.5	1601.5	1819.1	1867.9	1700.5	1401.4	1180.9	1035.9	946.6	901.3	896.4
32.5°	1607.8	1684.4	1937.2	1964.5	1708.8	1356.0	1122.8	979.3	886.1	840.7	833.9
35°	1716.1	1805.9	2103.1	2072.3	1702.5	1306.3	1067.6	913.0	824.2	781.7	774.9
37.5°	1852.8	1964.5	2288.0	2169.4	1684.9	1251.6	1002.3	857.3	768.5	725.6	721.7
40°	1980.1	2117.7	2495.4	2253.4	1649.3	1184.3	939.3	799.3	708.5	663.1	654.3
42.5°	2139.7	2322.7	2735.5	2326.1	1590.7	1103.8	868.6	727.5	633.4	592.4	581.6
45°	2382.2	2609.6	3014.6	2395.9	1503.4	1004.7	779.8	640.2	550.9	508.9	500.6
47.5°	2684.7	2968.2	3317.1	2437.3	1370.7	900.3	679.2	548.0	458.7	411.3	407.4
50°	3109.7	3489.9	3641.6	2430.0	1222.3	776.3	566.0	438.2	363.5	329.4	324.0
52.5°	3627.5	4144.7	3992.5	2342.2	1064.7	635.3	441.1	344.0	288.4	264.0	259.6
55°	4276.9	4928.8	4361.8	2153.8	865.6	486.5	346.4	271.3	233.2	218.6	216.7
57.5°	5081.1	5944.3	4717.6	1836.7	650.9	371.3	266.9	224.0	205.9	197.1	196.6
60°	6142.4	7022.2	5026.4	1427.3	466.0	284.0	220.6	200.1	185.9	180.1	179.6
62.5°	7404.2	8001.0	5218.7	972.0	350.4	226.4	194.2	181.5	173.2	169.8	169.3
65°	8701.2	8619.7	5126.9	636.8	265.9	192.3	174.2	167.4	160.0	156.6	156.6
67.5°	9467.3	8489.0	4422.8	442.1	210.8	168.8	157.1	150.8	138.6	135.7	135.7
70°	8385.5	6878.7	2898.9	323.5	170.8	147.9	136.6	127.8	123.0	120.0	119.5
72.5°	5546.1	4476.0	1541.5	224.5	142.5	125.9	115.6	112.2	106.4	103.4	103.0
75°	2760.4	2351.0	790.0	162.0	118.6	101.0	96.6	95.2	90.3	86.4	85.4
77.5°	1150.6	1046.7	368.4	117.6	90.3	81.5	77.6	77.6	72.2	67.8	65.9
80°	433.8	386.5	174.2	80.5	66.8	60.5	58.1	56.1	51.7	46.4	43.4
82.5°	580.2	379.1	85.4	50.3	43.9	39.0	35.6	34.2	31.7	29.3	27.3
85°	375.7	269.4	38.5	25.9	22.0	16.6	14.6	13.7	12.2	10.7	9.8
87.5°	76.6	90.3	11.7	4.9	2.9	1.5	1.5	0.5	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)