

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: P639206

Luminaire Tested: GWS-SA5B-735-U-T2-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P639206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-19)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5B-735-U-T2-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17375 lumens
Efficiency: N/A
Efficacy: 150.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

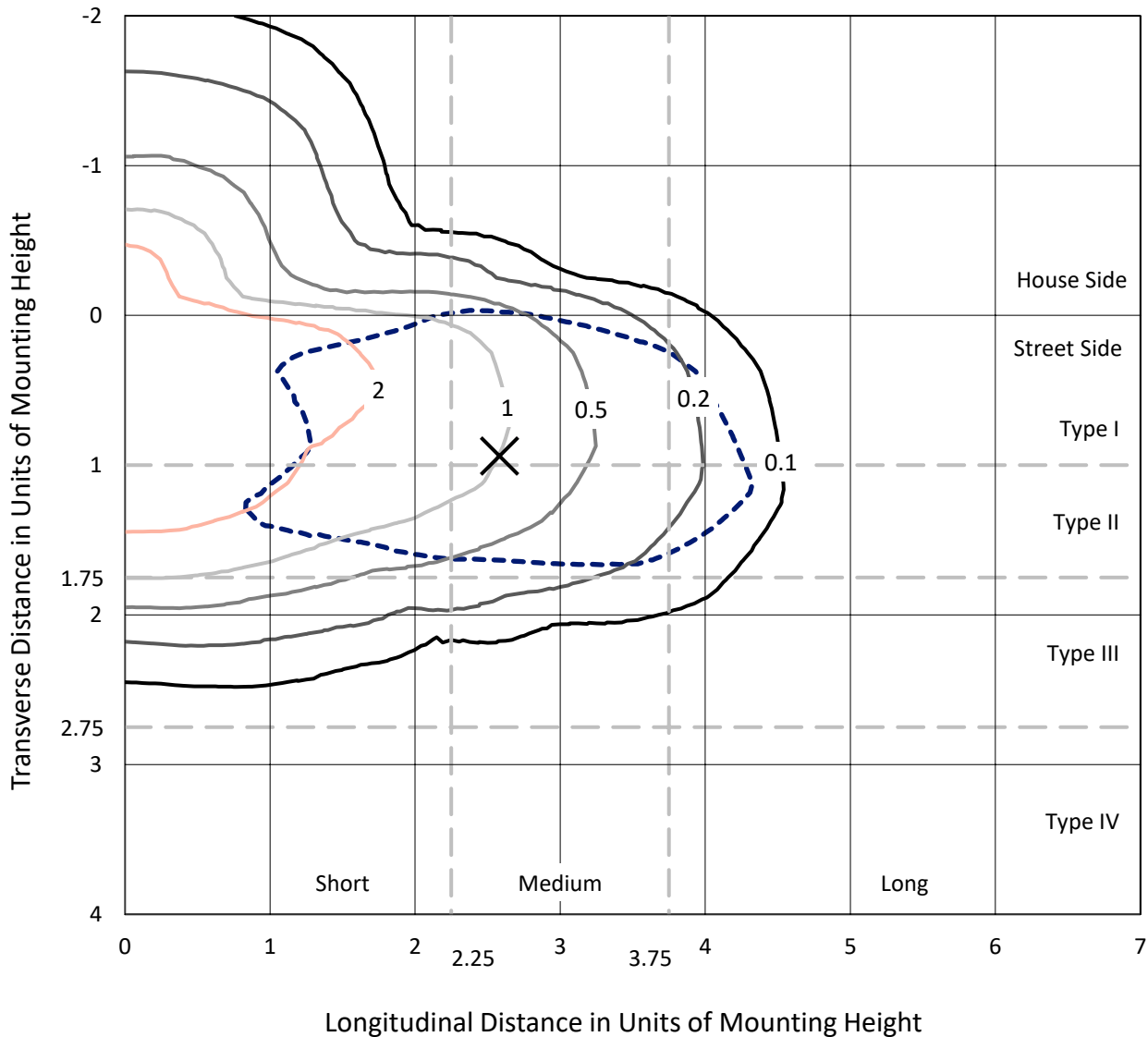
Input Watts (W): 115.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

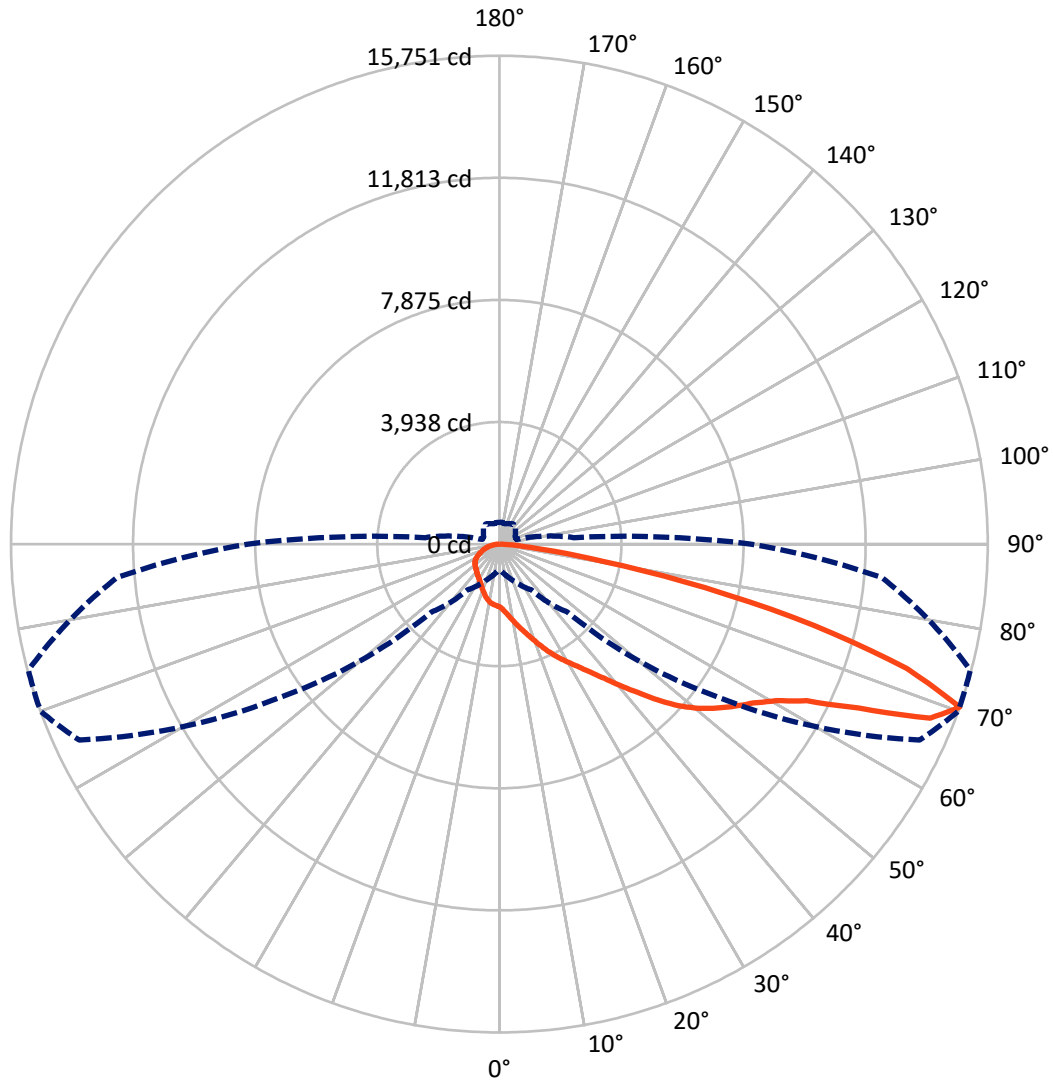
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3113.6	0.0	3113.6
	% Fixture	17.9	0.0	17.9
Street Side	Lumens	14261.4	0.0	14261.4
	% Fixture	82.1	0.0	82.1
Total	Lumens	17375.0	0.0	17375.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	205.9	1.2
10°-20°	670.0	3.9
20°-30°	1186.8	6.8
30°-40°	1786.2	10.3
40°-50°	2702.3	15.6
50°-60°	3871.3	22.3
60°-70°	4279.2	24.6
70°-80°	2414.9	13.9
80°-90°	258.3	1.5
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°	17375.0	100.0
0°-180°	17375.0	100.0

Coefficient of Utilization



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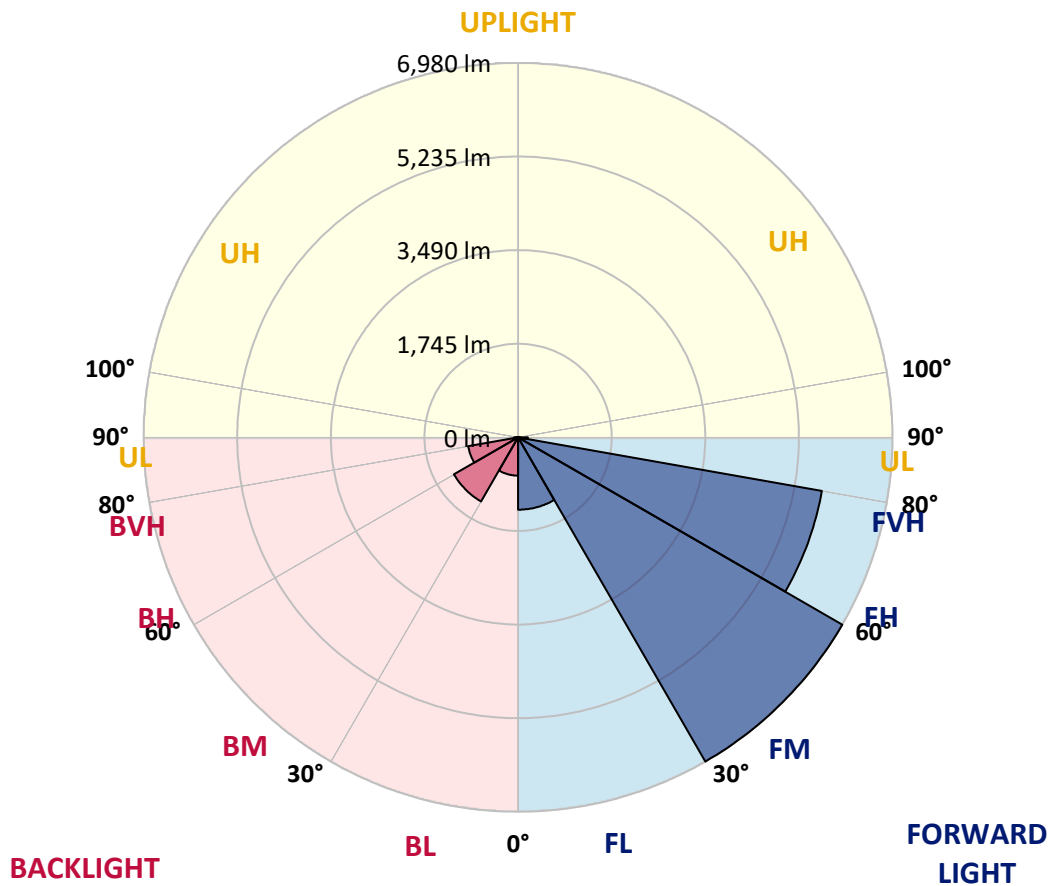
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1348.8	7.8			
FM (30°-60°)	6979.5	40.2			
FH (60°-80°)	5750.4	33.1			G3/7500
FVH (80°-90°)	182.6	1.1			G2/225
BL (0°-30°)	713.9	4.1	B2/1000		
BM (30°-60°)	1380.3	7.9	B2/2500		
BH (60°-80°)	943.7	5.4	B2/1000		G2/1000
BVH (80°-90°)	75.7	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	2026.3	2026.3	2026.3	2026.3	2026.3	2026.3	2026.3	2026.3	2026.3	2026.3	2026.3
2.5°	2244.7	2241.0	2243.5	2241.0	2227.2	2193.3	2165.6	2130.5	2106.6	2092.8	2060.2
5°	2508.4	2504.6	2495.8	2483.3	2458.2	2411.7	2342.7	2266.1	2219.6	2184.5	2115.4
7.5°	2697.9	2697.9	2696.7	2681.6	2664.0	2615.1	2533.5	2433.0	2365.3	2305.0	2192.0
10°	2794.6	2800.9	2809.7	2831.0	2827.3	2800.9	2724.3	2616.3	2531.0	2460.7	2292.4
12.5°	2847.3	2851.1	2866.2	2910.1	2955.3	2961.6	2916.4	2803.4	2710.5	2616.3	2404.2
15°	2915.1	2916.4	2936.5	2989.2	3055.7	3122.3	3111.0	2998.0	2902.6	2798.4	2528.5
17.5°	2967.9	2976.7	3013.1	3074.6	3157.4	3249.1	3304.3	3234.0	3116.0	2996.7	2664.0
20°	2986.7	2993.0	3040.7	3134.8	3247.8	3377.1	3500.2	3481.3	3362.1	3221.5	2817.2
22.5°	3054.5	3054.5	3089.6	3168.7	3301.8	3490.1	3689.7	3738.7	3633.3	3468.8	2981.7
25°	3203.9	3198.9	3215.2	3247.8	3348.3	3580.5	3876.8	4023.7	3905.7	3721.1	3146.1
27.5°	3408.5	3406.0	3404.8	3409.8	3443.7	3659.6	4035.0	4289.8	4171.8	3963.4	3293.0
30°	3630.7	3623.2	3639.5	3624.5	3616.9	3753.8	4169.3	4528.4	4436.7	4203.2	3414.8
32.5°	3933.3	3919.5	3915.7	3866.8	3836.6	3900.7	4277.3	4799.6	4726.7	4461.8	3551.6
35°	4332.5	4320.0	4256.0	4178.1	4089.0	4119.1	4411.6	5064.5	5069.5	4785.7	3731.2
37.5°	4735.5	4738.0	4687.8	4504.5	4412.9	4395.3	4616.3	5387.1	5495.1	5172.4	3963.4
40°	5070.7	5085.8	5085.8	4892.5	4755.6	4739.3	4903.8	5770.0	5984.7	5647.0	4257.2
42.5°	5325.6	5339.4	5383.3	5244.0	5099.6	5156.1	5252.8	6154.2	6539.6	6233.3	4628.8
45°	5605.6	5616.9	5640.7	5560.4	5476.2	5626.9	5648.2	6613.7	7174.9	6891.1	5060.7
47.5°	5977.2	5967.1	5969.6	5910.6	5845.3	6088.9	6083.9	7000.3	7788.8	7611.8	5529.0
50°	6439.2	6458.0	6440.4	6323.7	6247.1	6469.3	6498.2	7428.5	8328.6	8324.8	6001.0
52.5°	6883.6	6891.1	6984.0	6989.1	6832.1	6785.7	6861.0	7860.3	8784.3	8977.7	6454.2
55°	6906.2	6935.1	7213.8	7414.6	7668.2	7295.4	7227.6	8272.1	9225.0	9616.7	6925.0
57.5°	6425.4	6471.8	6945.1	7378.2	8083.8	8170.4	7855.3	8804.4	9665.7	10245.7	7469.9
60°	5398.4	5495.1	6137.9	6800.7	7896.7	8799.4	9139.6	9527.6	10244.4	10888.5	8131.5
62.5°	3447.4	3485.1	4386.5	5496.3	7054.3	8737.9	10538.2	10801.8	11125.7	11725.8	9150.9
65°	1726.2	1846.8	2375.3	3280.5	5087.1	7699.6	11245.0	13135.7	12739.0	13159.6	10803.1
67.5°	1171.3	1210.2	1477.7	1971.0	2982.9	5454.9	10806.9	15101.7	14985.0	15054.0	12564.5
70°	863.7	888.9	1099.8	1396.1	1804.1	3097.2	8603.6	14953.6	15750.8	15725.7	12379.9
72.5°	630.2	642.8	802.2	1065.9	1337.0	1601.9	5254.0	12079.9	13749.6	14474.0	10826.9
75°	458.2	473.3	557.4	797.2	1039.5	999.3	2593.7	8725.3	10485.5	11879.0	8820.7
77.5°	341.5	360.3	399.2	499.7	728.2	715.6	1121.1	5665.8	6781.9	7758.6	5358.2
80°	246.1	249.8	272.4	320.1	462.0	419.3	533.6	2954.1	3387.2	3711.1	2100.4
82.5°	149.4	153.2	182.0	197.1	286.2	263.6	277.5	956.6	1370.9	1455.1	784.7
85°	43.9	46.5	82.9	90.4	119.3	113.0	111.7	389.2	464.5	593.8	308.8
87.5°	0.0	0.0	0.0	0.0	1.3	7.5	13.8	69.0	104.2	144.4	75.3
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°	2026.3	2026.3	2026.3	2026.3	2026.3	2026.3	2026.3	2026.3	2026.3	2026.3	2026.3
2.5°	2047.6	2018.8	2003.7	1977.3	1958.5	1939.7	1920.8	1903.3	1895.7	1884.4	1886.9
5°	2084.0	2038.8	1993.6	1942.2	1898.2	1861.8	1829.2	1800.3	1787.8	1776.5	1781.5
7.5°	2139.3	2071.5	1984.9	1890.7	1821.6	1771.4	1737.5	1717.4	1711.2	1702.4	1702.4
10°	2209.6	2107.9	1956.0	1821.6	1738.8	1698.6	1683.5	1682.3	1688.6	1689.8	1687.3
12.5°	2287.4	2143.0	1913.3	1740.0	1669.7	1657.2	1668.5	1689.8	1711.2	1722.5	1720.0
15°	2367.8	2165.6	1840.5	1662.2	1619.5	1635.8	1672.2	1714.9	1756.4	1777.7	1776.5
17.5°	2443.1	2170.7	1746.3	1586.9	1575.6	1617.0	1679.8	1746.3	1802.8	1832.9	1834.2
20°	2527.2	2161.9	1649.7	1519.1	1531.6	1599.4	1682.3	1762.6	1829.2	1859.3	1866.8
22.5°	2603.8	2131.7	1555.5	1455.1	1494.0	1578.1	1662.2	1737.5	1796.5	1825.4	1835.5
25°	2672.8	2074.0	1452.5	1401.1	1465.1	1548.0	1612.0	1664.7	1706.1	1723.7	1737.5
27.5°	2710.5	1987.4	1374.7	1358.4	1437.5	1505.3	1540.4	1556.7	1570.6	1565.5	1575.6
30°	2718.0	1879.4	1306.9	1324.5	1396.1	1446.3	1453.8	1437.5	1413.6	1374.7	1383.5
32.5°	2710.5	1755.1	1250.4	1288.1	1349.6	1379.7	1369.7	1327.0	1269.3	1209.0	1212.8
35°	2713.0	1629.6	1204.0	1247.9	1295.6	1311.9	1286.8	1227.8	1166.3	1111.1	1108.6
37.5°	2740.6	1524.1	1165.1	1209.0	1242.9	1245.4	1217.8	1156.3	1124.9	1083.4	1078.4
40°	2817.2	1446.3	1129.9	1170.1	1191.4	1190.2	1158.8	1114.8	1136.2	1122.4	1118.6
42.5°	2942.8	1398.6	1101.0	1128.6	1143.7	1146.2	1121.1	1093.5	1139.9	1122.4	1116.1
45°	3144.9	1396.1	1080.9	1087.2	1111.1	1128.6	1111.1	1079.7	1097.3	1011.9	995.6
47.5°	3384.7	1438.7	1065.9	1050.8	1092.2	1123.6	1096.0	1045.8	1009.4	931.5	920.2
50°	3673.4	1525.4	1052.1	1011.9	1064.6	1104.8	1077.2	1008.1	952.9	911.5	905.2
52.5°	4016.2	1639.6	1034.5	967.9	1023.2	1094.7	1077.2	1004.4	931.5	893.9	887.6
55°	4375.2	1771.4	1014.4	915.2	976.7	1097.3	1086.0	978.0	915.2	895.1	890.1
57.5°	4820.9	1929.6	978.0	853.7	935.3	1074.7	1050.8	962.9	903.9	887.6	882.6
60°	5399.7	2164.4	908.9	790.9	887.6	1034.5	1019.4	937.8	873.8	860.0	856.2
62.5°	6316.1	2562.4	824.8	730.7	831.1	950.4	973.0	890.1	836.1	834.9	833.6
65°	7810.1	3040.7	725.6	676.7	772.1	881.3	911.5	841.1	797.2	811.0	809.8
67.5°	8857.1	3082.1	644.0	620.2	703.0	806.0	849.9	790.9	743.2	769.6	768.3
70°	8112.7	2404.2	573.7	561.2	629.0	724.4	783.4	728.2	680.5	705.6	700.5
72.5°	6842.2	1843.0	507.2	499.7	553.7	639.0	698.0	665.4	615.2	615.2	603.9
75°	5498.8	1520.3	436.9	433.1	469.5	552.4	618.9	563.7	517.2	514.7	507.2
77.5°	3153.7	996.8	366.6	364.1	375.4	462.0	480.8	469.5	434.4	418.1	413.0
80°	1256.7	518.5	288.8	272.4	283.7	339.0	379.1	360.3	330.2	310.1	298.8
82.5°	487.1	259.9	203.4	178.3	194.6	244.8	274.9	268.7	248.6	203.4	190.8
85°	198.4	126.8	121.8	102.9	113.0	131.8	158.2	136.8	113.0	80.3	76.6
87.5°	52.7	46.5	45.2	27.6	21.3	6.3	1.3	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)