

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: P640953

Luminaire Tested: GWS-SA5E-830-U-SL4-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640953
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-35)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5E-830-U-SL4-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS
Light Source: (80) 3000K CCT, 80 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28640.7 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

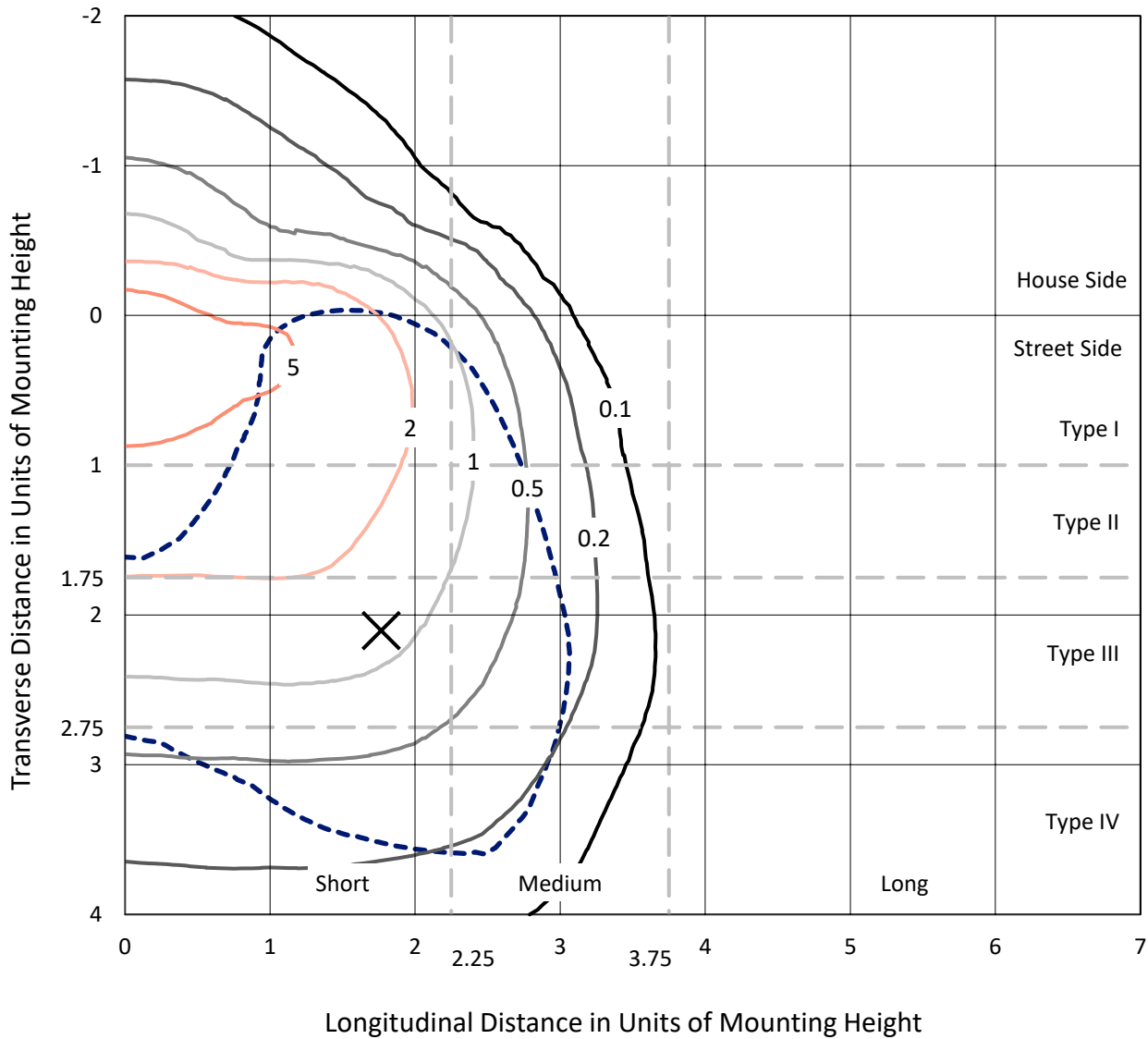
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P640953
 CATALOG NUMBER: GWS-SA5E-830-U-SL4-W

Iso-Footcandle Lines of Horizontal Illumination

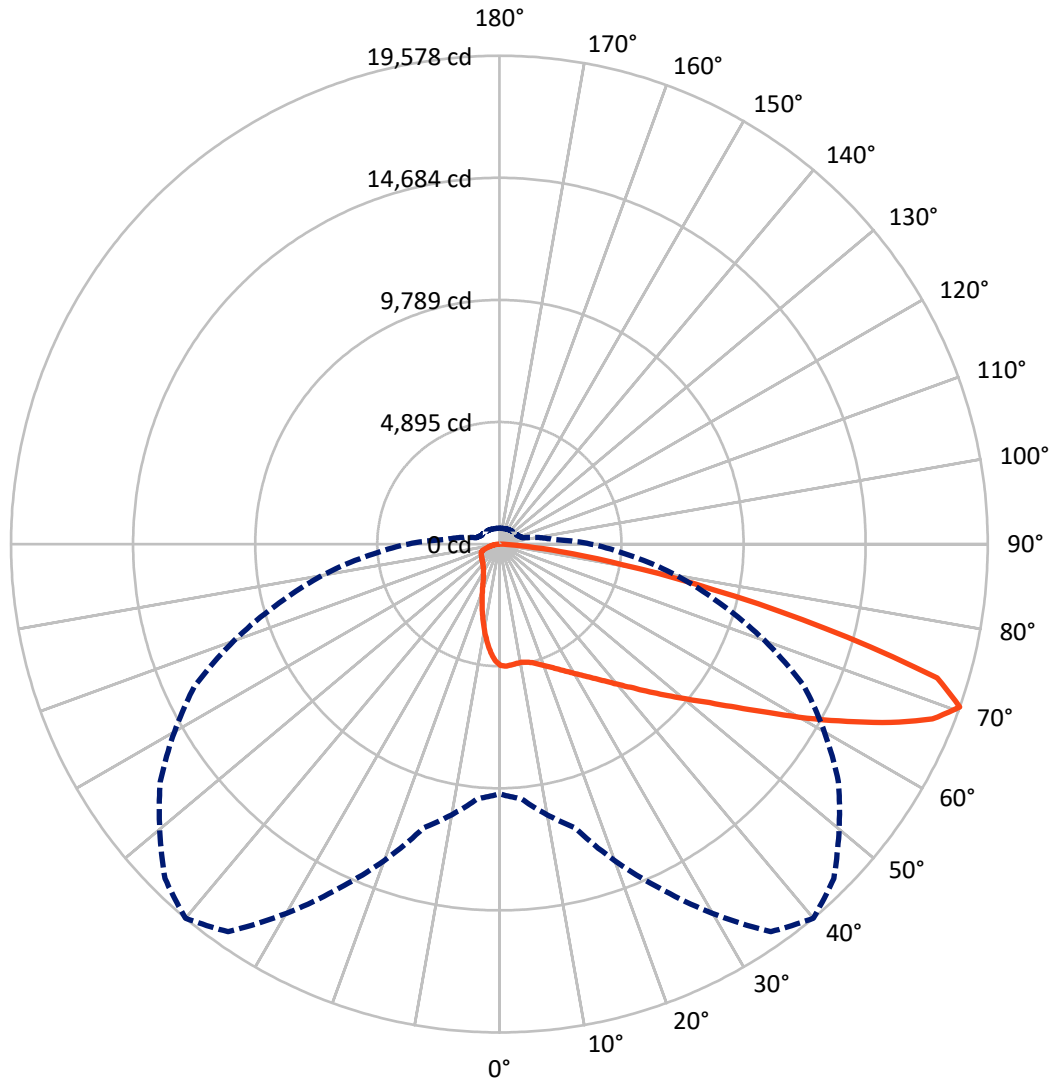
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type IV - Short - N/A

REPORT NUMBER: P640953
CATALOG NUMBER: GWS-SA5E-830-U-SL4-W

Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: P640953

CATALOG NUMBER: GWS-SA5E-830-U-SL4-W

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4411.4	0.0	4411.4
	% Fixture	15.4	0.0	15.4
Street Side	Lumens	24229.3	0.0	24229.3
	% Fixture	84.6	0.0	84.6
Total	Lumens	28640.7	0.0	28640.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.6	1.5
10°-20°	1119.9	3.9
20°-30°	1758.5	6.1
30°-40°	2643.9	9.2
40°-50°	4081.0	14.2
50°-60°	6060.6	21.2
60°-70°	7639.2	26.7
70°-80°	4417.7	15.4
80°-90°	490.3	1.7
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°	28640.7	100.0
0°-180°	28640.7	100.0

Coefficient of Utilization



REPORT NUMBER: P640953

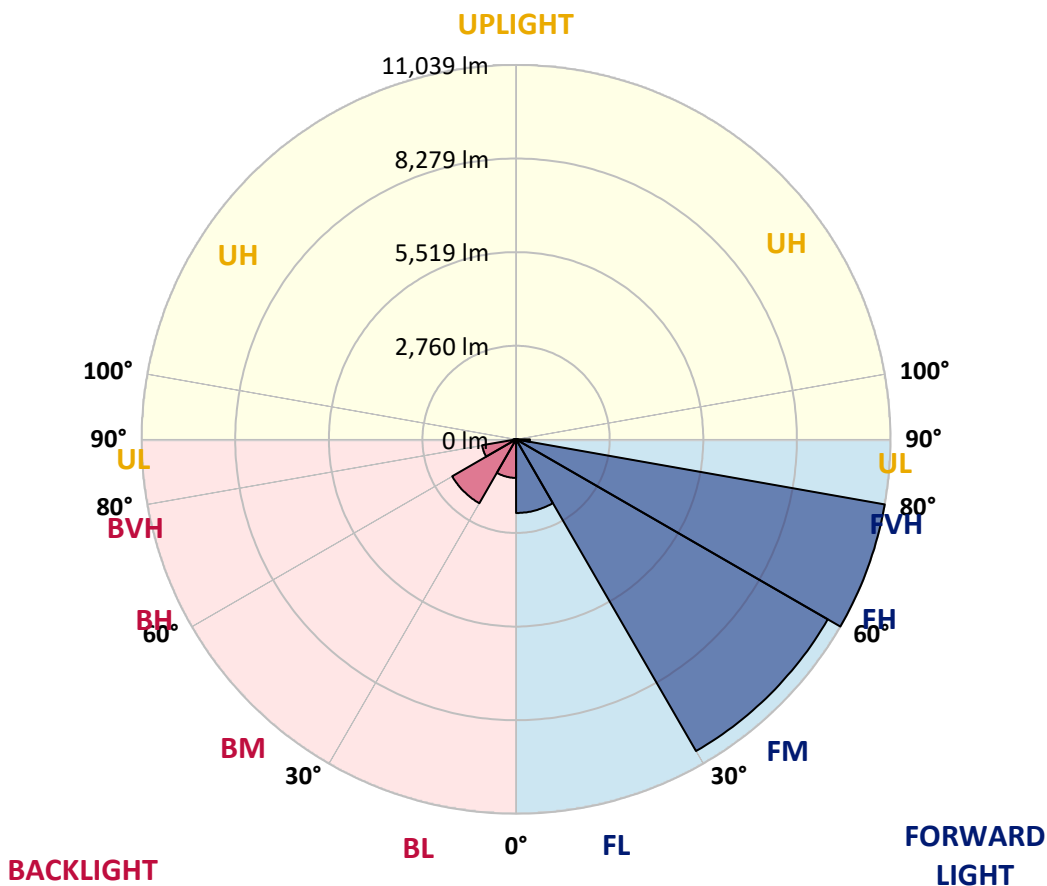
CATALOG NUMBER: GWS-SA5E-830-U-SL4-W

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2171.2	7.6			
FM (30°-60°)	10611.0	37.0			
FH (60°-80°)	11038.8	38.5			G4/12000
FVH (80°-90°)	408.3	1.4			G3/500
BL (0°-30°)	1136.9	4.0	B3/2500		
BM (30°-60°)	2174.4	7.6	B2/2500		
BH (60°-80°)	1018.2	3.6	B3/2500		G3/2500
BVH (80°-90°)	82.0	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-G4

Type IV Short





REPORT NUMBER: P640953
 CATALOG NUMBER: GWS-SA5E-830-U-SL4-W

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	40°	45°	55°	65°	75°	85°
0°	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5
2.5°	4893.4	4902.0	4908.4	4917.0	4912.7	4899.9	4910.6	4910.6	4887.0	4861.4	4837.9
5°	4899.9	4910.6	4908.4	4906.3	4889.2	4867.8	4867.8	4855.0	4814.3	4773.7	4735.3
7.5°	4887.0	4884.9	4882.8	4876.3	4857.1	4833.6	4829.3	4803.7	4750.2	4694.6	4639.0
10°	4829.3	4827.2	4833.6	4848.6	4844.3	4822.9	4822.9	4799.4	4737.4	4669.0	4596.3
12.5°	4782.3	4782.3	4807.9	4848.6	4863.5	4855.0	4857.1	4840.0	4769.5	4688.2	4602.7
15°	4788.7	4790.8	4846.4	4912.7	4940.5	4934.1	4936.2	4917.0	4837.9	4756.6	4641.2
17.5°	4831.5	4842.1	4938.3	5030.3	5066.6	5058.1	5043.1	5011.0	4921.2	4829.3	4688.2
20°	4921.2	4938.3	5062.3	5177.8	5220.5	5201.3	5175.6	5111.5	5013.2	4912.7	4739.5
22.5°	5098.7	5109.4	5246.2	5359.5	5393.7	5370.2	5318.9	5226.9	5113.6	5008.9	4801.5
25°	5348.8	5361.6	5492.0	5596.8	5588.2	5560.4	5489.9	5376.6	5241.9	5130.7	4891.3
27.5°	5646.0	5667.3	5795.6	5879.0	5823.4	5782.8	5703.7	5566.9	5415.1	5314.6	5028.1
30°	5970.9	5979.5	6088.5	6171.9	6086.3	6030.8	5934.6	5787.1	5650.2	5575.4	5233.4
32.5°	6285.2	6293.7	6387.8	6434.8	6345.0	6304.4	6221.0	6065.0	5968.8	5928.1	5539.1
35°	6616.5	6614.4	6691.3	6732.0	6640.0	6622.9	6537.4	6417.7	6400.6	6454.1	5985.9
37.5°	6947.9	6928.6	6969.3	7022.7	6971.4	6988.5	6932.9	6892.3	6958.6	7097.5	6580.2
40°	7213.0	7213.0	7255.7	7322.0	7339.1	7413.9	7381.9	7435.3	7649.1	7980.4	7315.6
42.5°	7448.1	7450.3	7540.1	7642.7	7766.7	7882.1	7907.8	8046.7	8489.2	9008.7	8239.1
45°	7694.0	7696.1	7818.0	7967.6	8230.6	8450.8	8502.1	8814.2	9447.0	10079.8	9241.8
47.5°	7978.3	7954.8	8123.7	8373.8	8747.9	9064.3	9196.9	9639.4	10438.9	11217.1	10186.7
50°	8299.0	8249.8	8437.9	8869.8	9331.5	9765.5	9987.9	10494.5	11503.6	12266.8	11076.0
52.5°	8660.3	8632.5	8829.2	9355.1	10060.5	10560.8	10862.2	11527.1	12538.3	13312.1	11781.5
55°	9109.2	9042.9	9327.3	9996.4	10915.7	11552.7	11909.7	12548.9	13669.2	14261.3	12320.2
57.5°	9600.9	9528.2	9908.8	10798.1	12027.3	12726.4	13173.2	13699.1	14733.8	14988.2	12636.6
60°	10131.1	10107.6	10558.6	11738.7	13352.8	14165.1	14487.9	14964.7	15659.5	15409.3	12557.5
62.5°	10616.4	10607.8	11264.1	12758.5	14757.3	15650.9	15907.4	16033.6	16326.5	15381.5	11929.0
65°	11127.3	11200.0	12087.2	13940.7	16367.1	17243.6	17350.5	17029.8	16550.9	14652.6	10642.0
67.5°	11191.4	11332.5	12604.5	15048.0	17893.5	18720.8	18635.3	17408.2	15888.2	12623.8	8341.7
70°	10009.2	10255.1	11779.3	15216.9	18968.8	19578.1	18960.2	16593.7	13483.2	9145.6	5246.2
72.5°	8363.1	8574.8	9921.6	12976.5	17581.4	18357.4	17521.5	14045.4	9528.2	5246.2	2672.3
75°	6509.6	6755.5	7997.5	10314.9	13162.5	13472.5	13053.5	9795.4	5237.6	2163.5	1214.3
77.5°	3972.1	4149.5	5115.8	6988.5	9209.7	8745.8	7411.8	5492.0	2298.1	1036.8	750.4
80°	1757.3	1866.3	2520.5	3754.0	5321.0	5030.3	3965.6	2345.2	1257.0	658.4	523.8
82.5°	942.8	1013.3	1242.1	1485.8	2336.6	2443.5	1981.8	1351.1	675.5	376.3	299.3
85°	414.7	455.4	564.4	538.7	767.5	754.6	761.1	927.8	322.8	173.2	194.5
87.5°	0.0	0.0	0.0	0.0	2.1	2.1	23.5	124.0	32.1	51.3	44.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P640953
 CATALOG NUMBER: GWS-SA5E-830-U-SL4-W

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5	4863.5
2.5°	4812.2	4773.7	4763.0	4750.2	4726.7	4686.1	4656.2	4621.9	4607.0	4589.9	4592.0
5°	4692.5	4645.5	4600.6	4542.8	4470.2	4388.9	4333.3	4269.2	4235.0	4202.9	4211.5
7.5°	4589.9	4517.2	4425.3	4303.4	4173.0	4027.6	3910.1	3818.1	3756.1	3713.4	3734.8
10°	4525.7	4440.2	4279.9	4081.1	3860.9	3638.6	3469.7	3311.5	3213.1	3136.2	3131.9
12.5°	4512.9	4401.8	4168.7	3880.1	3561.6	3264.4	3016.5	2802.7	2672.3	2576.1	2612.4
15°	4525.7	4384.6	4072.5	3694.1	3292.2	2890.3	2582.5	2336.6	2180.6	2092.9	2086.5
17.5°	4540.7	4367.5	3963.5	3493.2	3010.0	2550.4	2193.4	1932.6	1772.2	1684.6	1686.7
20°	4553.5	4341.9	3835.2	3273.0	2723.6	2234.0	1864.2	1616.2	1473.0	1408.8	1419.5
22.5°	4574.9	4316.2	3698.4	3037.8	2430.7	1928.3	1603.4	1402.4	1316.9	1274.1	1276.3
25°	4615.5	4301.3	3557.3	2781.3	2142.1	1684.6	1423.8	1289.1	1235.7	1210.0	1207.9
27.5°	4698.9	4314.1	3409.8	2533.3	1881.3	1498.6	1308.3	1220.7	1184.3	1167.2	1165.1
30°	4837.9	4365.4	3281.5	2281.0	1656.8	1353.2	1229.2	1175.8	1154.4	1139.5	1137.3
32.5°	5049.5	4461.6	3142.6	2045.9	1475.1	1246.3	1167.2	1139.5	1124.5	1115.9	1115.9
35°	5370.2	4636.9	3005.8	1840.7	1334.0	1163.0	1118.1	1107.4	1094.6	1090.3	1094.6
37.5°	5831.9	4917.0	2881.8	1661.1	1233.5	1098.8	1064.6	1068.9	1058.2	1064.6	1071.0
40°	6417.7	5291.1	2777.0	1513.6	1158.7	1051.8	1017.6	1032.6	1026.1	1032.6	1043.3
42.5°	7159.5	5755.0	2697.9	1398.1	1105.2	1013.3	981.3	996.2	991.9	1000.5	1011.2
45°	7986.9	6366.4	2661.6	1316.9	1066.8	985.5	951.3	962.0	957.7	964.2	974.8
47.5°	8780.0	6922.2	2693.6	1269.9	1034.7	962.0	925.7	929.9	927.8	925.7	932.1
50°	9464.1	7364.8	2785.6	1254.9	1013.3	938.5	904.3	906.4	900.0	887.2	891.5
52.5°	10022.1	7719.6	2841.2	1254.9	1002.6	912.8	880.8	882.9	870.1	853.0	855.1
55°	10389.8	7862.9	2796.3	1252.8	998.4	891.5	857.3	859.4	846.6	825.2	827.3
57.5°	10494.5	7723.9	2608.1	1229.2	994.1	874.4	833.7	838.0	829.5	806.0	806.0
60°	10201.6	7215.1	2263.9	1175.8	983.4	863.7	816.6	823.1	818.8	795.3	795.3
62.5°	9434.2	6310.8	1853.5	1094.6	953.5	850.8	801.7	814.5	825.2	812.4	810.2
65°	7997.5	5055.9	1507.2	1004.8	915.0	829.5	780.3	812.4	835.9	853.0	853.0
67.5°	6000.8	3619.3	1229.2	910.7	857.3	786.7	752.5	782.4	799.5	810.2	816.6
70°	3657.8	2129.3	968.4	801.7	773.9	722.6	696.9	667.0	643.5	639.2	641.3
72.5°	1789.3	1218.6	786.7	682.0	660.6	613.6	555.8	543.0	532.3	525.9	523.8
75°	985.5	848.7	649.9	566.5	528.0	470.3	457.5	436.1	431.8	423.3	425.4
77.5°	696.9	669.1	536.6	459.6	401.9	372.0	378.4	363.4	363.4	357.0	354.9
80°	523.8	525.9	412.6	335.6	297.2	286.5	292.9	292.9	288.6	286.5	284.3
82.5°	331.4	374.1	277.9	215.9	211.6	213.8	211.6	209.5	213.8	207.4	205.2
85°	228.7	269.4	168.9	128.3	128.3	126.1	130.4	128.3	132.5	126.1	126.1
87.5°	51.3	119.7	62.0	38.5	40.6	38.5	40.6	42.8	47.0	49.2	49.2
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)