

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: P633380

Luminaire Tested: GWS-SA2E-750-U-T2R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P633380
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-SA2E-750-U-T2R-W
Description: GALLEON WALL SLIM LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II ROADWAY OPTICS
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15219.1 lumens
Efficiency: N/A
Efficacy: 140.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

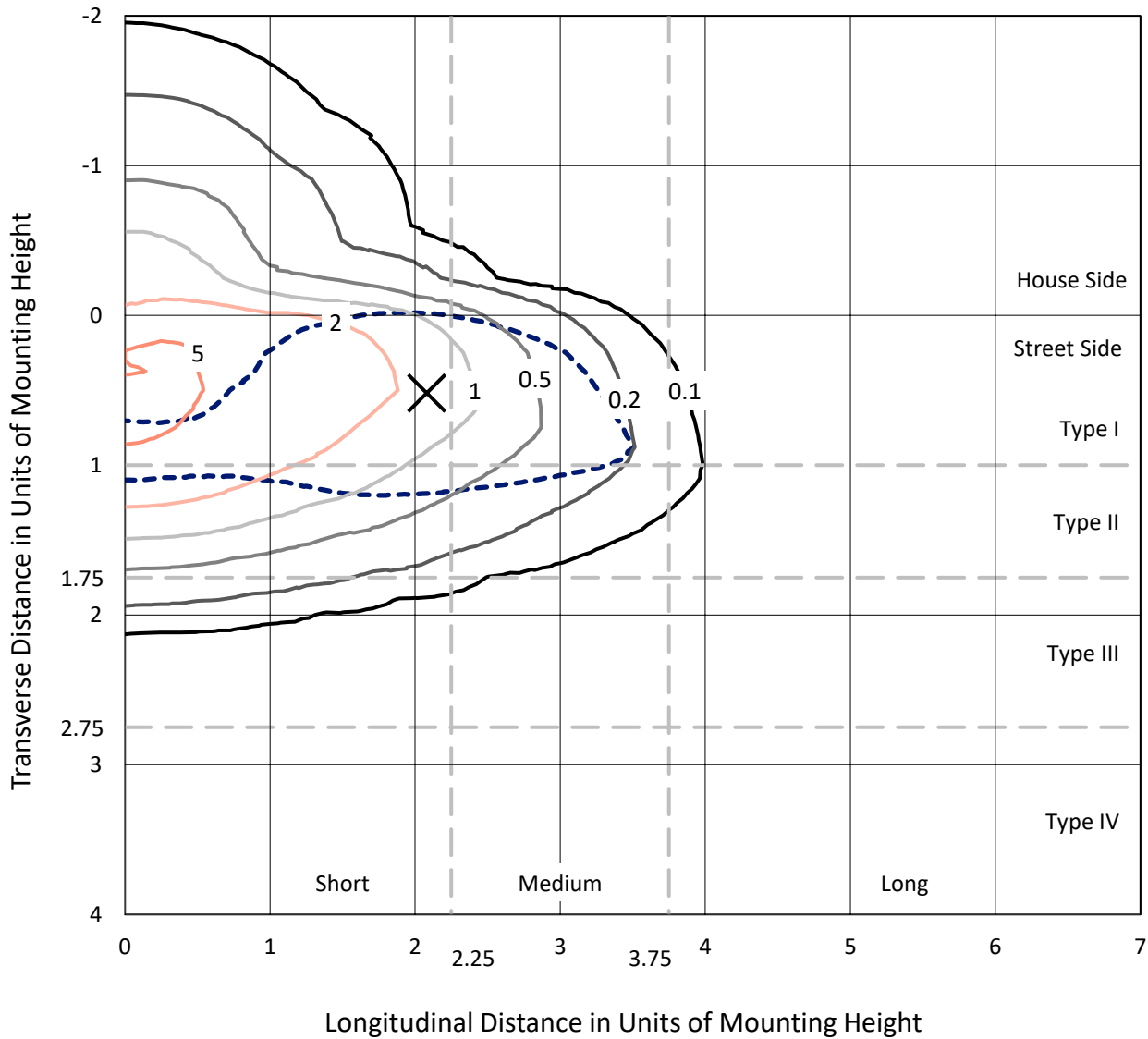
Input Watts (W): 108.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

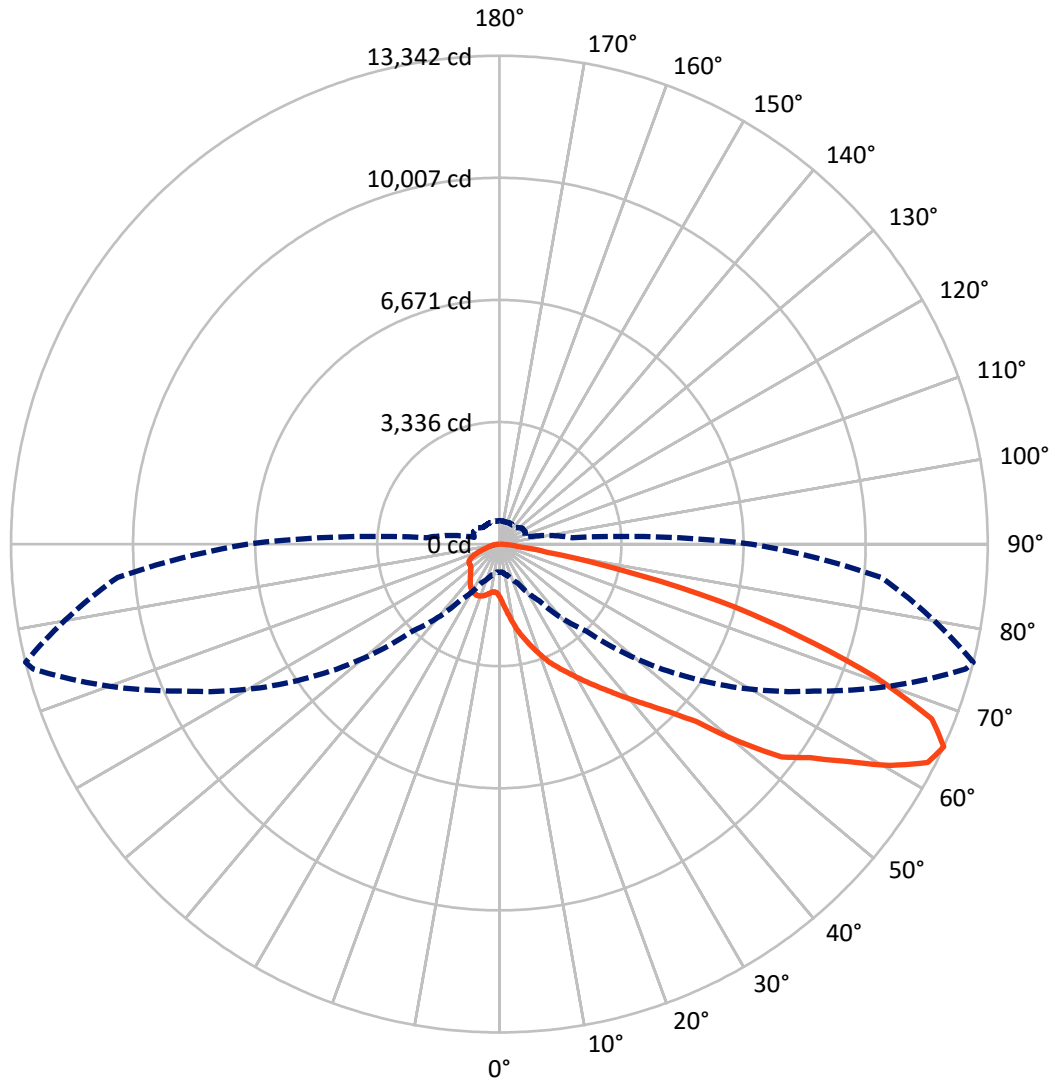
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6 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
House Side	Lumens	2543.9	0.0	2543.9
	% Fixture	16.7	0.0	16.7
Street Side	Lumens	12675.2	0.0	12675.2
	% Fixture	83.3	0.0	83.3
Total	Lumens	15219.1	0.0	15219.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.2	1.1
10°-20°	652.2	4.3
20°-30°	1271.0	8.4
30°-40°	2125.6	14.0
40°-50°	3043.5	20.0
50°-60°	3603.1	23.7
60°-70°	2996.0	19.7
70°-80°	1226.0	8.1
80°-90°	130.5	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°	15219.1	100.0
0°-180°	15219.1	100.0

Coefficient of Utilization



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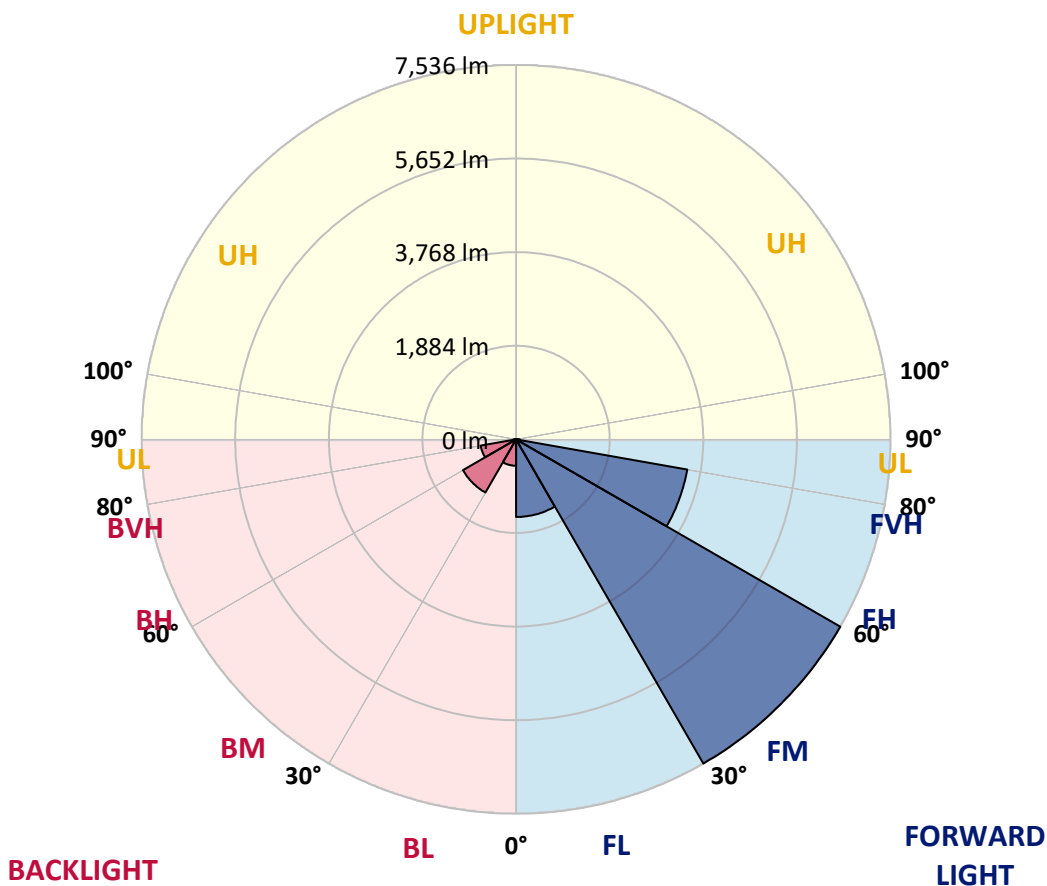
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1562.2	10.3			
FM (30°-60°)	7535.9	49.5			
FH (60°-80°)	3499.3	23.0			G2/5000
FVH (80°-90°)	77.9	0.5			G1/100
BL (0°-30°)	532.2	3.5	B2/1000		
BM (30°-60°)	1236.3	8.1	B2/2500		
BH (60°-80°)	722.7	4.7	B2/1000		G2/1000
BVH (80°-90°)	52.7	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°	1441.2	1441.2	1441.2	1441.2	1441.2	1441.2	1441.2	1441.2	1441.2	1441.2	1441.2
2.5°	2020.0	2027.5	2002.9	1994.3	1936.6	1858.5	1793.2	1694.8	1603.8	1589.9	1508.6
5°	2565.7	2533.6	2505.8	2487.6	2407.3	2318.5	2180.5	1995.4	1801.8	1778.2	1602.8
7.5°	2889.9	2884.5	2850.3	2839.6	2777.5	2688.7	2546.4	2316.4	2035.0	1996.5	1730.1
10°	3149.9	3146.7	3129.5	3139.2	3082.5	2995.8	2857.8	2620.3	2290.7	2252.2	1872.4
12.5°	3376.7	3382.0	3378.8	3414.1	3385.3	3317.8	3174.5	2913.4	2546.4	2504.7	2045.7
15°	3542.5	3546.8	3562.9	3639.9	3655.9	3642.0	3496.5	3201.2	2798.9	2739.0	2224.4
17.5°	3589.6	3598.2	3636.7	3760.8	3847.5	3905.2	3797.2	3494.4	3047.2	2981.9	2406.3
20°	3652.7	3662.4	3700.9	3830.3	3957.7	4089.3	4070.0	3791.8	3297.5	3244.0	2590.3
22.5°	3944.8	3937.3	3920.2	3982.3	4073.2	4236.9	4285.1	4077.5	3556.4	3505.1	2793.6
25°	4507.6	4493.7	4384.6	4327.9	4297.9	4397.4	4483.0	4337.5	3808.9	3731.9	2983.0
27.5°	5128.2	5120.7	4981.6	4846.8	4662.7	4619.9	4670.2	4564.3	4054.0	3975.9	3147.7
30°	5715.6	5693.1	5547.6	5378.5	5132.4	4948.4	4874.6	4786.9	4322.5	4241.2	3340.3
32.5°	6240.9	6212.0	6040.8	5853.6	5595.7	5378.5	5158.1	5023.3	4626.4	4532.2	3537.2
35°	6672.1	6643.2	6467.7	6268.7	5985.2	5824.7	5523.0	5280.1	4935.6	4840.4	3769.4
37.5°	7005.9	6979.1	6796.2	6600.4	6353.2	6225.9	5963.8	5569.0	5291.9	5192.4	4015.4
40°	7193.1	7173.9	7027.3	6872.1	6664.6	6554.4	6436.7	5933.8	5690.9	5591.4	4305.4
42.5°	7249.8	7237.0	7134.3	7054.0	6913.9	6830.4	6897.8	6362.9	6116.8	6030.1	4631.7
45°	7107.5	7107.5	7077.6	7118.2	7124.6	7123.6	7360.0	6847.5	6640.0	6544.7	5091.8
47.5°	6743.8	6767.3	6811.2	7011.2	7222.0	7398.5	7900.3	7493.8	7313.0	7234.9	5743.4
50°	6078.3	6142.5	6292.2	6682.8	7131.1	7580.4	8411.8	8449.2	8621.5	8483.5	6702.0
52.5°	5103.6	5093.9	5475.9	6032.3	6715.9	7587.9	8693.2	9292.3	9755.6	9660.4	7414.6
55°	4056.1	4040.0	4396.3	5163.5	6079.3	7301.2	8862.2	9678.6	10384.7	10299.1	8055.5
57.5°	3106.0	3085.7	3402.4	4094.6	5180.6	6692.4	8830.1	10138.6	11250.3	11206.4	8926.4
60°	2137.7	2113.1	2409.5	3015.1	4117.1	5761.6	8474.9	10375.1	12263.5	12278.5	9858.3
62.5°	1283.9	1270.0	1485.1	1954.8	2961.6	4608.2	7643.6	10231.7	13070.2	13137.6	10457.5
65°	774.6	765.0	891.2	1166.2	1878.8	3362.8	6361.8	9498.8	13186.9	13342.0	10471.4
67.5°	563.9	564.9	601.3	710.4	1095.6	2172.0	4774.0	8184.9	12579.1	12739.6	9811.2
70°	490.0	492.2	511.4	536.0	662.3	1243.3	3103.9	6461.3	10782.7	10906.8	8228.8
72.5°	435.5	435.5	448.3	461.1	517.8	757.5	1662.7	4516.2	8510.2	8543.4	6280.5
75°	383.0	379.8	386.2	392.7	449.4	529.6	808.9	3146.7	6285.8	6208.8	4059.3
77.5°	304.9	301.7	302.8	309.2	360.6	378.8	409.8	1965.5	3542.5	3343.5	1793.2
80°	217.2	215.1	226.8	242.9	266.4	232.2	256.8	951.2	1404.8	1307.5	695.5
82.5°	129.5	133.7	151.9	164.8	184.0	145.5	165.8	317.8	497.5	484.7	282.5
85°	18.2	19.3	54.6	63.1	79.2	56.7	87.7	143.4	199.0	212.9	99.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	7.5	25.7	56.7	57.8	24.6
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°	1441.2	1441.2	1441.2	1441.2	1441.2	1441.2	1441.2	1441.2	1441.2	1441.2	1441.2
2.5°	1466.9	1416.6	1344.9	1285.0	1234.7	1194.0	1159.8	1134.1	1126.6	1115.9	1115.9
5°	1520.4	1429.4	1301.0	1210.1	1157.7	1126.6	1105.2	1094.5	1089.2	1082.8	1079.6
7.5°	1594.2	1466.9	1293.5	1201.5	1160.9	1141.6	1127.7	1121.3	1117.0	1110.6	1110.6
10°	1695.8	1522.5	1317.1	1231.5	1199.4	1180.1	1164.1	1153.4	1143.8	1134.1	1132.0
12.5°	1806.0	1595.3	1359.9	1272.1	1237.9	1214.4	1191.9	1175.9	1164.1	1152.3	1149.1
15°	1928.0	1670.2	1405.9	1311.7	1268.9	1236.8	1210.1	1185.5	1169.4	1152.3	1150.2
17.5°	2047.8	1746.1	1444.4	1338.5	1283.9	1244.3	1205.8	1173.7	1153.4	1134.1	1128.8
20°	2191.2	1822.1	1471.2	1346.0	1280.7	1228.3	1182.3	1141.6	1119.1	1096.7	1093.5
22.5°	2322.8	1892.7	1484.0	1335.3	1256.1	1194.0	1140.5	1096.7	1072.1	1049.6	1045.3
25°	2450.1	1954.8	1478.6	1309.6	1218.6	1147.0	1091.3	1047.5	1023.9	1000.4	994.0
27.5°	2573.2	1996.5	1457.2	1270.0	1171.6	1094.5	1041.0	1001.5	981.1	960.8	952.2
30°	2694.1	2035.0	1424.1	1218.6	1111.7	1040.0	996.1	968.3	948.0	926.6	920.1
32.5°	2816.0	2062.8	1373.8	1158.7	1050.7	991.8	965.1	944.7	923.3	901.9	895.5
35°	2939.1	2074.6	1312.8	1090.3	999.3	960.8	951.2	927.6	898.7	873.1	864.5
37.5°	3085.7	2085.3	1236.8	1022.9	954.4	945.8	943.7	908.4	874.1	838.8	829.2
40°	3262.2	2099.2	1158.7	961.9	918.0	940.5	931.9	883.8	815.3	781.0	770.3
42.5°	3478.3	2124.9	1077.4	906.2	891.2	920.1	910.5	823.8	777.8	758.6	753.2
45°	3796.1	2219.0	996.1	862.4	870.9	891.2	876.3	788.5	770.3	757.5	751.1
47.5°	4362.1	2363.5	925.5	829.2	854.9	865.6	807.8	778.9	765.0	747.9	740.4
50°	4950.6	2426.6	868.8	808.9	836.7	842.0	770.3	766.1	756.4	738.3	730.8
52.5°	5348.6	2418.0	834.5	801.4	821.7	801.4	753.2	752.2	745.7	724.3	715.8
55°	5797.9	2433.0	819.6	803.5	815.3	732.9	731.8	735.0	731.8	708.3	704.0
57.5°	6404.6	2479.0	812.1	811.0	811.0	699.7	711.5	715.8	709.4	698.7	695.5
60°	6987.7	2482.2	798.2	819.6	807.8	679.4	688.0	692.2	684.8	682.6	681.5
62.5°	7207.0	2328.2	767.1	813.1	795.0	656.9	663.4	665.5	658.0	663.4	662.3
65°	6880.7	2000.8	715.8	782.1	755.4	636.6	632.3	637.7	624.8	638.7	639.8
67.5°	6109.3	1589.9	637.7	723.3	699.7	614.1	605.6	605.6	584.2	605.6	604.5
70°	4925.9	1123.4	523.2	629.1	638.7	587.4	583.1	558.5	524.3	556.4	553.2
72.5°	3734.0	806.7	411.9	497.5	549.9	549.9	551.0	509.3	469.7	484.7	471.8
75°	2365.6	568.1	329.5	380.9	431.2	482.5	507.1	430.1	394.8	388.4	382.0
77.5°	1065.6	373.4	256.8	292.1	306.0	380.9	463.3	370.2	322.0	308.1	303.9
80°	446.2	232.2	183.0	206.5	188.3	319.9	408.7	287.8	236.5	217.2	203.3
82.5°	195.8	138.0	116.6	111.3	117.7	237.5	304.9	191.5	147.7	200.1	202.2
85°	82.4	72.8	59.9	54.6	48.1	90.9	143.4	74.9	92.0	52.4	42.8
87.5°	19.3	21.4	16.0	10.7	6.4	1.1	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)