

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: P638338

Luminaire Tested: GWS-SA4E-750-U-T3R-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638338
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-15)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-750-U-T3R-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31823.4 lumens
Efficiency: N/A
Efficacy: 157.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G4

Input Watts (W): 202.6
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

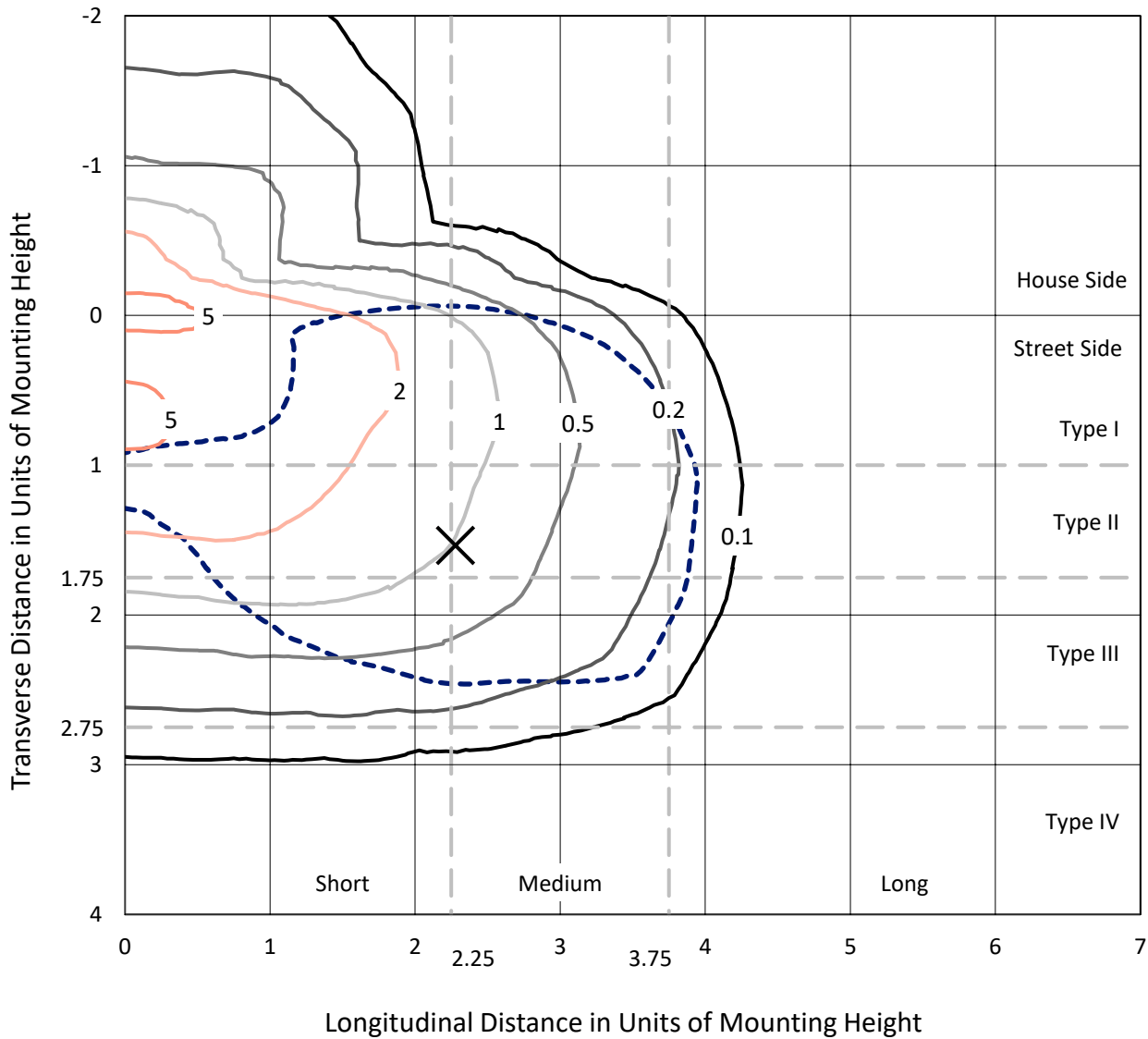


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Iso-Footcandle Lines of Horizontal Illumination

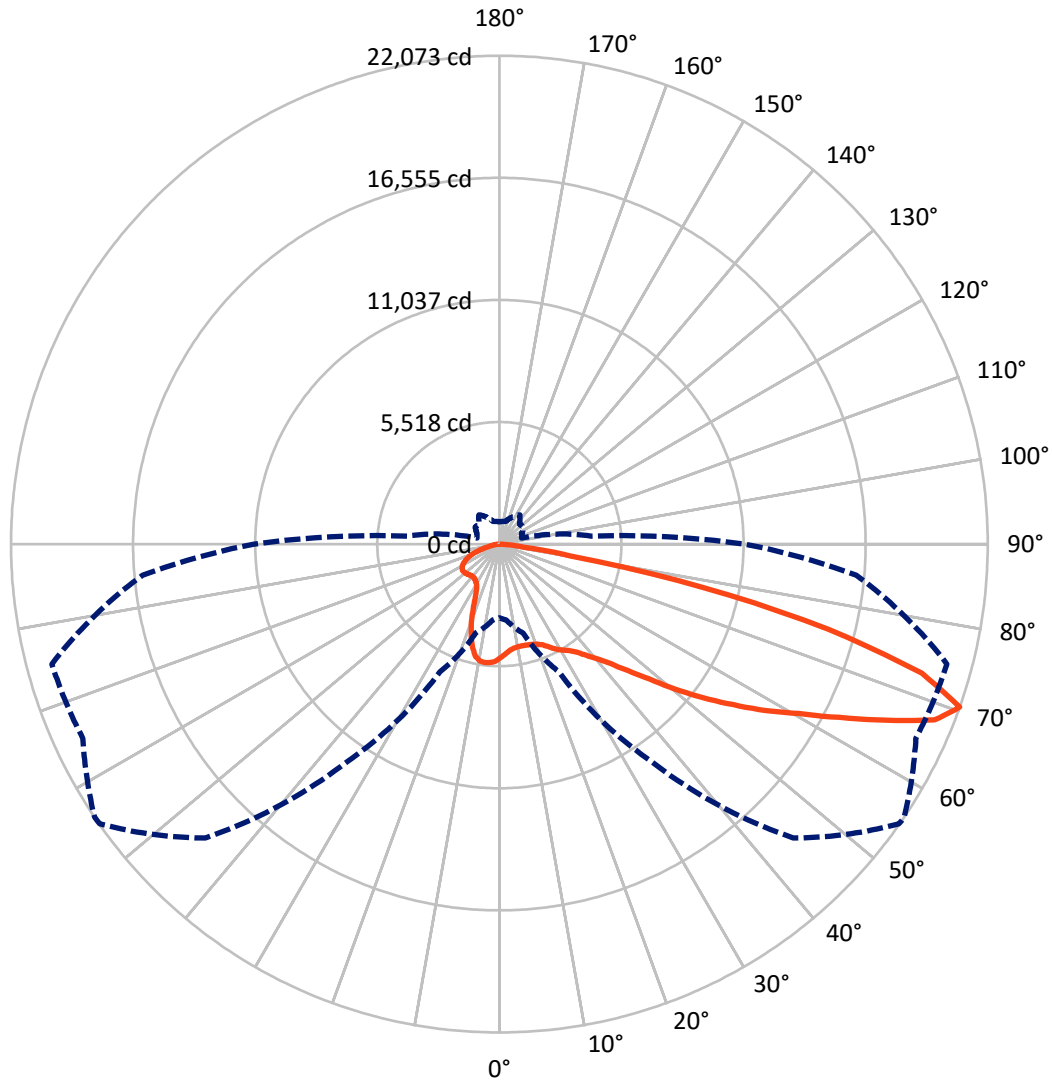
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.9 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 56-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6118.1	0.0	6118.1
	% Fixture	19.2	0.0	19.2
Street Side	Lumens	25705.3	0.0	25705.3
	% Fixture	80.8	0.0	80.8
Total	Lumens	31823.4	0.0	31823.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	475.3	1.5
10°-20°	1288.0	4.0
20°-30°	2129.4	6.7
30°-40°	3183.7	10.0
40°-50°	4737.8	14.9
50°-60°	6735.8	21.2
60°-70°	8342.5	26.2
70°-80°	4606.5	14.5
80°-90°	324.4	1.0
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°	31823.4	100.0
0°-180°	31823.4	100.0

Coefficient of Utilization



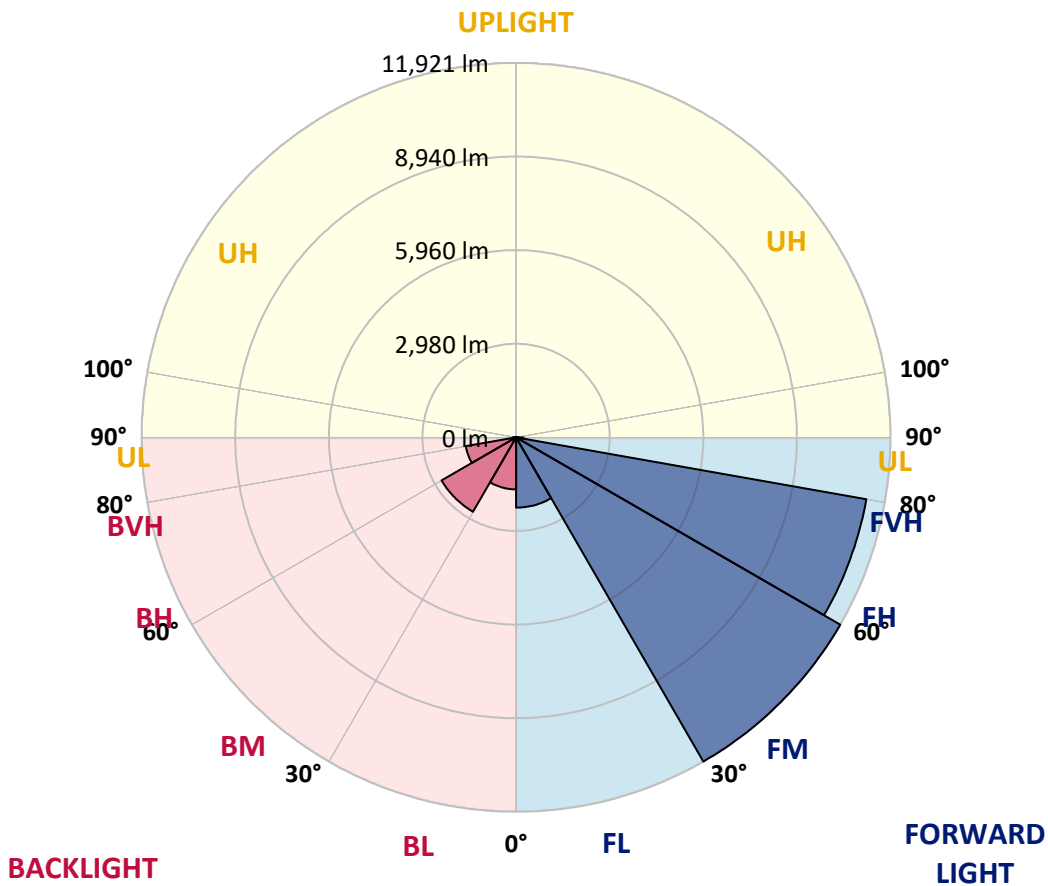
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2236.5	7.0			
FM (30°-60°)	11920.6	37.5			
FH (60°-80°)	11322.8	35.6			G4/12000
FVH (80°-90°)	225.4	0.7			G3/500
BL (0°-30°)	1656.2	5.2	B3/2500		
BM (30°-60°)	2736.8	8.6	B3/5000		
BH (60°-80°)	1626.2	5.1	B3/2500		G3/2500
BVH (80°-90°)	99.0	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	5136.8	5136.8	5136.8	5136.8	5136.8	5136.8	5136.8	5136.8	5136.8	5136.8	5136.8
2.5°	4806.9	4780.0	4811.4	4827.1	4867.5	4925.8	4977.5	4979.7	5006.6	5071.7	5134.5
5°	4589.2	4575.8	4584.7	4631.9	4674.5	4748.6	4827.1	4833.8	4910.1	5038.0	5163.7
7.5°	4420.9	4403.0	4436.6	4497.2	4551.1	4634.1	4737.3	4746.3	4854.0	5047.0	5240.0
10°	4178.5	4165.1	4227.9	4308.7	4425.4	4562.3	4699.2	4710.4	4851.8	5105.4	5374.7
12.5°	4073.1	4073.1	4100.0	4176.3	4304.2	4486.0	4692.5	4710.4	4887.7	5195.1	5547.5
15°	4236.9	4248.1	4225.7	4221.2	4272.8	4445.6	4701.4	4728.4	4955.0	5287.1	5718.0
17.5°	4566.8	4578.0	4519.7	4427.6	4376.0	4483.7	4735.1	4764.3	5026.8	5388.1	5902.0
20°	5029.1	5042.5	4914.6	4773.2	4596.0	4593.7	4800.2	4827.1	5118.8	5498.1	6097.3
22.5°	5569.9	5578.9	5417.3	5192.9	4921.4	4797.9	4912.4	4939.3	5237.8	5650.7	6308.2
25°	6196.0	6222.9	6027.7	5702.3	5334.3	5078.4	5098.6	5130.1	5451.0	5854.9	6557.3
27.5°	6864.8	6898.4	6674.0	6314.9	5807.8	5388.1	5338.8	5365.7	5677.6	5980.6	6689.7
30°	7549.2	7573.9	7349.5	6938.8	6317.2	5738.2	5540.7	5556.4	5776.4	6041.2	6824.4
32.5°	8310.0	8289.8	8074.3	7600.8	6905.2	6157.9	5729.2	5724.7	5886.3	6162.3	7017.4
35°	9023.6	9052.8	8823.9	8301.0	7551.5	6676.3	6012.0	5994.0	6119.7	6359.8	7288.9
37.5°	9887.6	9878.6	9604.8	9039.3	8200.0	7172.2	6409.2	6377.8	6422.7	6667.3	7668.2
40°	10504.7	10567.6	10390.3	9862.9	8958.5	7782.6	6873.7	6804.2	6815.4	7046.5	8175.3
42.5°	11009.6	11068.0	11085.9	10749.3	9827.0	8536.6	7452.7	7383.1	7389.9	7717.5	8799.2
45°	11397.9	11476.4	11730.0	11631.3	10805.4	9407.3	8235.9	8164.1	8168.6	8532.1	9553.2
47.5°	11557.2	11642.5	12156.4	12392.0	11844.5	10448.6	9209.9	9104.4	9120.1	9521.8	10415.0
50°	11505.6	11620.0	12315.7	12977.7	12715.2	11507.8	10374.6	10300.5	10239.9	10823.4	11350.7
52.5°	11061.3	11186.9	12300.0	13350.3	13426.6	12508.7	11577.4	11534.8	11521.3	12205.8	12396.5
55°	9752.9	9963.9	11759.2	13449.0	13983.1	13451.2	12881.2	12809.4	12879.0	13686.9	13453.5
57.5°	9028.1	9185.2	10700.0	13339.0	14438.7	14348.9	14182.8	14189.6	14268.1	15295.9	14734.9
60°	8615.2	8799.2	10112.0	13038.3	14876.3	15439.5	15545.0	15545.0	15686.4	17030.6	16036.5
62.5°	8067.6	8253.9	9562.2	12459.3	15280.2	16723.2	17257.3	17250.5	17306.6	18891.0	17308.9
65°	6956.8	7129.6	8458.1	11546.0	15477.7	18137.0	19202.9	19182.7	19070.5	20547.1	18150.4
67.5°	5051.5	5215.3	6478.8	9809.0	14766.3	19277.0	21206.9	21215.9	20544.9	21590.7	18195.3
70°	3330.3	3442.5	4165.1	6371.1	12008.3	18785.5	22046.2	22073.1	20771.6	20939.9	16193.6
72.5°	2078.1	2156.6	2600.9	3799.3	7095.9	14869.5	19891.9	19965.9	18686.8	18401.8	13305.4
75°	1380.1	1434.0	1730.2	2214.9	3283.1	8047.4	15120.9	15358.7	14977.2	14425.2	9270.5
77.5°	830.3	875.2	1101.9	1407.1	1454.2	3144.0	8826.1	9441.0	9494.9	7531.3	3882.3
80°	379.3	430.9	608.2	803.4	774.2	1095.1	3112.6	3256.2	3841.9	2392.2	1225.3
82.5°	224.4	246.9	403.9	399.5	329.9	531.9	1119.8	1149.0	976.2	875.2	522.9
85°	89.8	105.5	170.6	150.4	121.2	172.8	421.9	442.1	424.1	381.5	193.0
87.5°	0.0	0.0	0.0	0.0	2.2	4.5	38.2	40.4	58.3	105.5	58.3
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°	5136.8	5136.8	5136.8	5136.8	5136.8	5136.8	5136.8	5136.8	5136.8	5136.8	5136.8
2.5°	5174.9	5161.5	5228.8	5280.4	5302.9	5325.3	5305.1	5298.4	5298.4	5253.5	5231.0
5°	5231.0	5237.8	5329.8	5372.4	5372.4	5354.5	5300.6	5262.5	5249.0	5190.6	5174.9
7.5°	5336.5	5365.7	5451.0	5448.7	5385.9	5287.1	5152.5	5049.3	4955.0	4914.6	4889.9
10°	5509.3	5547.5	5605.8	5511.6	5336.5	5076.2	4791.2	4566.8	4432.1	4324.4	4324.4
12.5°	5706.8	5742.7	5731.5	5513.8	5152.5	4665.5	4254.8	3996.8	3808.3	3709.5	3709.5
15°	5904.3	5933.4	5812.3	5410.6	4768.8	4120.2	3671.4	3361.7	3197.9	3105.9	3105.9
17.5°	6104.0	6101.8	5845.9	5172.7	4268.3	3516.5	3076.7	2836.6	2780.5	2764.8	2762.5
20°	6297.0	6245.4	5803.3	4775.5	3687.1	2908.4	2630.1	2645.8	2728.8	2764.8	2769.2
22.5°	6514.7	6386.8	5677.6	4268.3	3027.3	2486.5	2504.4	2634.6	2755.8	2809.6	2816.4
25°	6736.8	6507.9	5466.7	3673.6	2475.3	2331.6	2470.8	2616.6	2753.5	2823.1	2829.8
27.5°	6826.6	6507.9	5107.6	2984.7	2181.3	2266.6	2419.2	2560.5	2704.2	2785.0	2800.7
30°	6900.7	6451.8	4604.9	2363.1	2060.1	2203.7	2336.1	2466.3	2607.7	2706.4	2724.4
32.5°	7003.9	6402.5	3996.8	1986.0	2004.0	2143.1	2235.1	2345.1	2473.0	2538.1	2531.4
35°	7125.1	6326.2	3262.9	1806.5	1956.9	2091.5	2156.6	2221.7	2163.3	2161.1	2167.8
37.5°	7297.9	6258.8	2623.4	1725.7	1925.5	2055.6	2109.5	1970.3	1889.5	1855.9	1842.4
40°	7547.0	6231.9	2069.1	1678.6	1921.0	2053.4	2015.2	1799.8	1689.8	1573.1	1570.9
42.5°	7861.1	6211.7	1710.0	1656.2	1936.7	2105.0	1885.1	1687.6	1460.9	1409.3	1404.8
45°	8265.1	6180.3	1530.5	1651.7	1974.8	2145.4	1871.6	1532.7	1377.9	1355.4	1355.4
47.5°	8752.1	6130.9	1449.7	1651.7	2017.5	2127.4	1831.2	1499.1	1339.7	1364.4	1380.1
50°	9310.8	6068.1	1407.1	1647.2	2060.1	2127.4	1745.9	1492.3	1330.8	1458.7	1510.3
52.5°	9907.8	5996.3	1377.9	1629.2	2089.3	2129.7	1750.4	1514.8	1339.7	1481.1	1523.8
55°	10567.6	5985.1	1337.5	1591.1	2098.3	2071.3	1761.6	1564.2	1353.2	1342.0	1344.2
57.5°	11400.1	6119.7	1308.3	1535.0	2062.3	1952.4	1784.1	1600.1	1337.5	1339.7	1355.4
60°	12270.8	6373.3	1333.0	1481.1	1988.3	1840.2	1799.8	1582.1	1261.2	1225.3	1229.8
62.5°	13011.4	6566.3	1353.2	1456.4	1880.6	1741.4	1784.1	1541.7	1218.6	1209.6	1229.8
65°	13321.1	6407.0	1303.8	1404.8	1723.5	1620.3	1750.4	1490.1	1182.7	1149.0	1151.2
67.5°	12977.7	5659.7	1207.3	1290.4	1546.2	1465.4	1696.6	1422.8	1133.3	1092.9	1083.9
70°	11085.9	4158.4	1041.3	1108.6	1330.8	1283.6	1613.5	1335.3	1054.7	1025.6	1005.4
72.5°	8933.8	2944.3	864.0	881.9	1043.5	1081.7	1469.9	1225.3	965.0	881.9	852.8
75°	6218.5	1849.2	720.4	702.4	754.0	825.8	1146.7	1016.6	832.6	745.0	718.1
77.5°	2675.0	949.3	563.3	554.3	502.7	572.3	879.7	848.3	697.9	596.9	581.2
80°	895.4	549.8	406.2	390.5	334.4	401.7	619.4	677.7	547.6	442.1	415.2
82.5°	448.8	318.7	258.1	233.4	224.4	253.6	365.8	421.9	379.3	305.2	258.1
85°	219.9	181.8	141.4	139.1	116.7	110.0	152.6	179.5	170.6	125.7	118.9
87.5°	80.8	71.8	44.9	35.9	22.4	15.7	9.0	9.0	6.7	6.7	6.7
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)