

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: P638340

Luminaire Tested: GWS-SA4E-750-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638340
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-54)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-750-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (64) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30236.8 lumens
Efficiency: N/A
Efficacy: 149.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

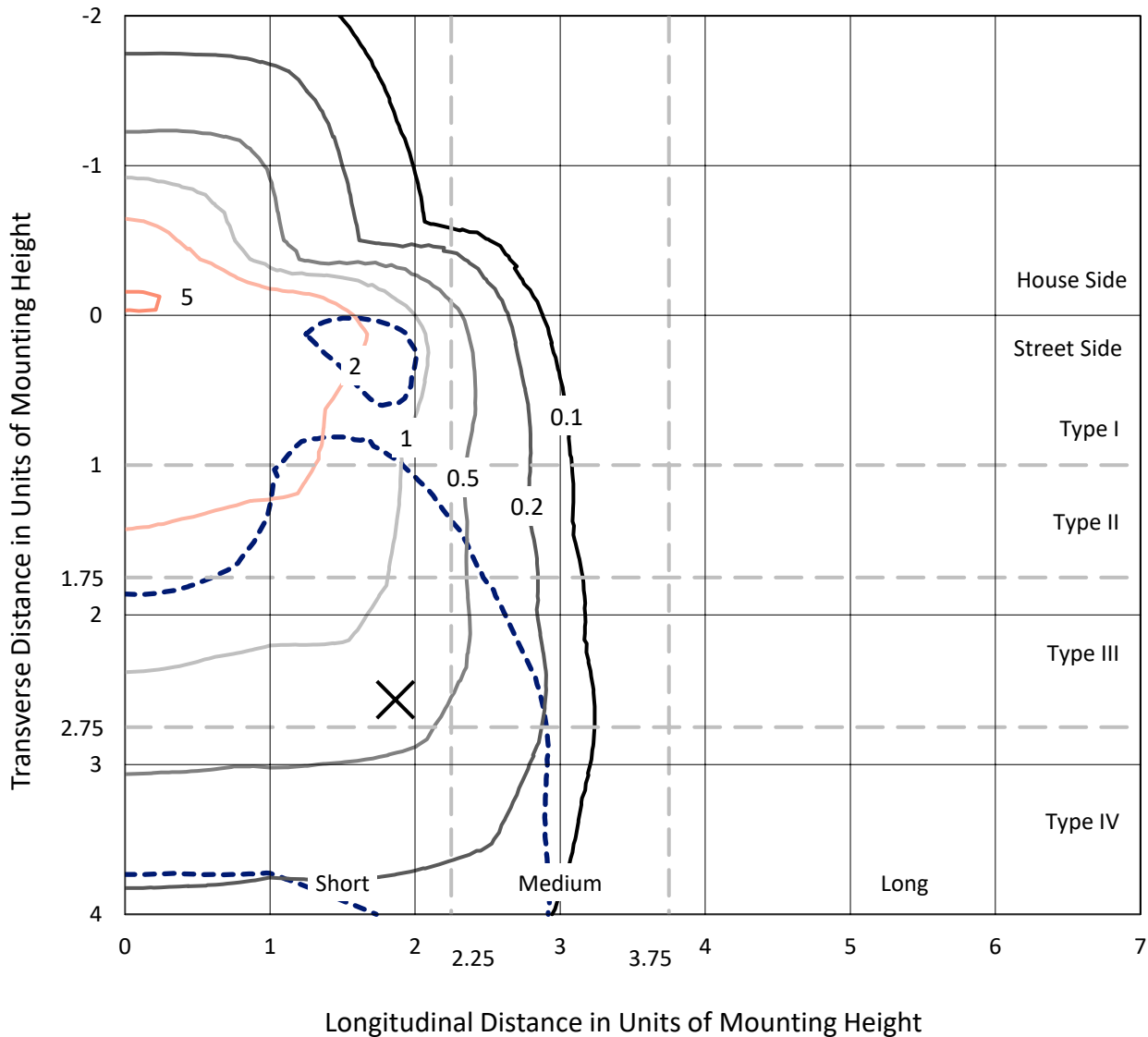
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

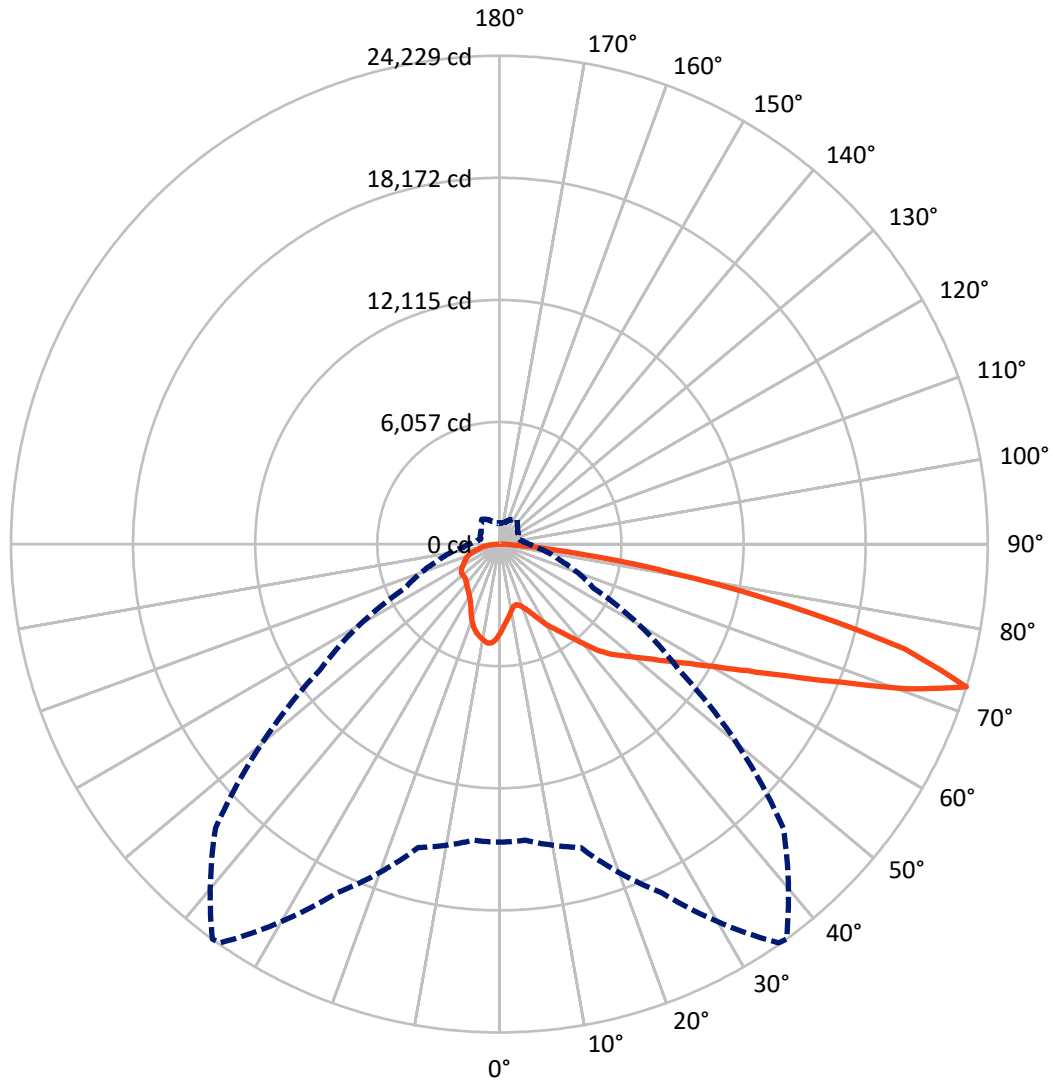
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 5.2 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 36-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6970.9	0.0	6970.9
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	23265.9	0.0	23265.9
	% Fixture	76.9	0.0	76.9
Total	Lumens	30236.8	0.0	30236.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	413.6	1.4
10°-20°	1167.1	3.9
20°-30°	1932.8	6.4
30°-40°	2894.5	9.6
40°-50°	4222.8	14.0
50°-60°	6010.4	19.9
60°-70°	7593.7	25.1
70°-80°	5411.1	17.9
80°-90°	590.7	2.0
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°	30236.8	100.0
0°-180°	30236.8	100.0

Coefficient of Utilization



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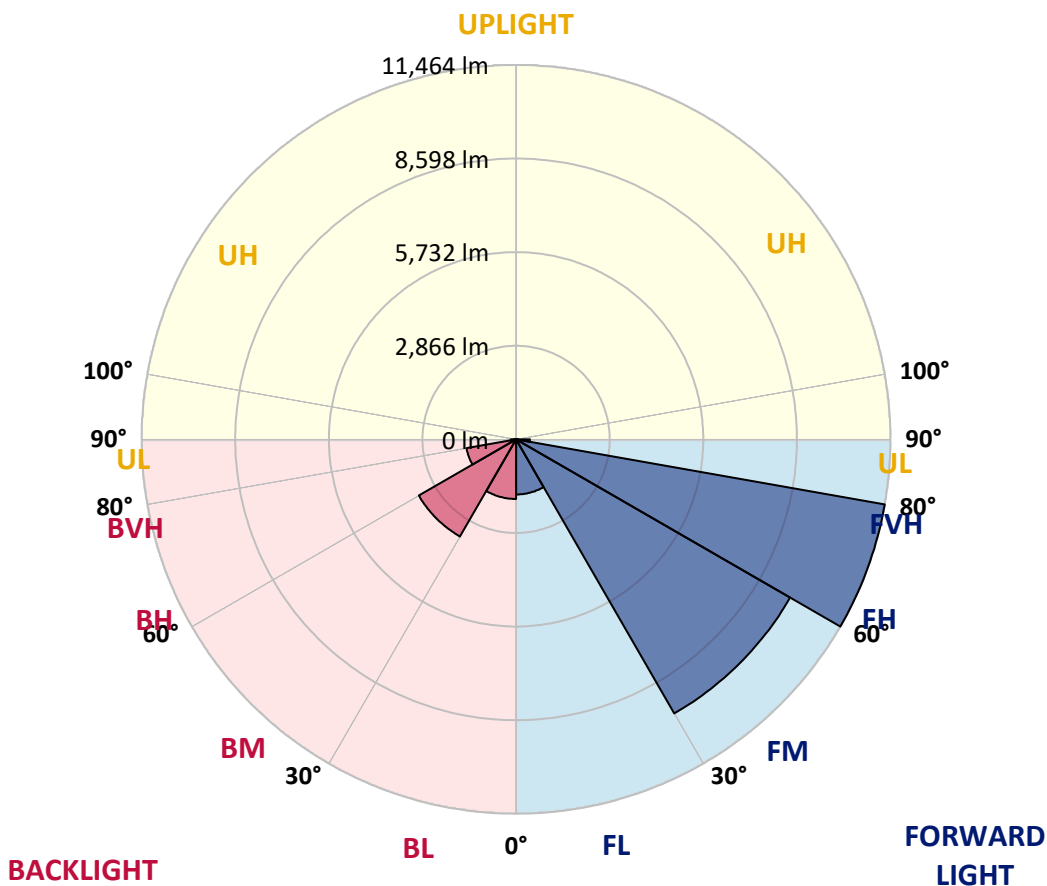
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1688.0	5.6			
FM (30°-60°)	9690.1	32.0			
FH (60°-80°)	11463.8	37.9			G4/12000
FVH (80°-90°)	424.0	1.4			G3/500
BL (0°-30°)	1825.4	6.0	B3/2500		
BM (30°-60°)	3437.6	11.4	B3/5000		
BH (60°-80°)	1541.1	5.1	B3/2500		G3/2500
BVH (80°-90°)	166.7	0.6			G2/225
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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	4425.3	4425.3	4425.3	4425.3	4425.3	4425.3	4425.3	4425.3	4425.3	4425.3	4425.3
2.5°	4037.1	4030.3	4016.9	4057.3	4097.7	4093.2	4149.3	4203.1	4261.5	4322.1	4402.9
5°	3713.9	3709.4	3698.2	3758.8	3819.4	3817.2	3909.2	3996.7	4115.6	4245.8	4407.3
7.5°	3390.8	3379.6	3395.3	3471.6	3556.8	3565.8	3691.5	3835.1	4007.9	4203.1	4432.0
10°	3105.8	3103.5	3110.3	3195.5	3323.5	3332.4	3494.0	3693.7	3922.6	4182.9	4488.1
12.5°	3031.7	3027.2	3009.3	3051.9	3148.4	3161.9	3339.2	3583.8	3864.3	4194.2	4564.4
15°	3152.9	3141.7	3078.9	3058.7	3105.8	3117.0	3267.4	3518.7	3830.6	4214.3	4660.9
17.5°	3361.6	3354.9	3235.9	3152.9	3184.3	3193.3	3305.5	3507.5	3821.6	4254.7	4779.9
20°	3666.8	3637.6	3451.4	3325.7	3325.7	3339.2	3406.5	3556.8	3832.9	4304.1	4914.5
22.5°	4070.7	4012.4	3749.8	3579.3	3534.4	3552.4	3581.5	3680.3	3880.0	4387.1	5082.8
25°	4524.0	4470.2	4158.2	3918.1	3855.3	3862.0	3837.3	3855.3	3983.2	4501.6	5291.5
27.5°	5006.5	4970.6	4638.5	4333.3	4234.5	4234.5	4147.0	4104.4	4126.8	4631.7	5524.9
30°	5437.4	5388.0	5107.5	4773.1	4643.0	4643.0	4476.9	4384.9	4331.0	4791.1	5836.8
32.5°	5664.0	5634.8	5448.6	5192.8	5033.4	5008.7	4865.1	4757.4	4631.7	5026.7	6258.7
35°	5960.2	5953.5	5841.3	5641.6	5439.6	5403.7	5305.0	5219.7	5002.0	5320.7	6819.7
37.5°	6332.7	6321.5	6303.6	6184.6	5942.3	5935.5	5848.0	5744.8	5462.0	5744.8	7499.7
40°	6750.1	6729.9	6707.5	6705.3	6559.4	6534.7	6528.0	6411.3	6016.3	6256.4	8208.8
42.5°	7324.6	7255.1	7044.1	7138.4	7246.1	7223.6	7308.9	7133.9	6707.5	6864.6	8879.8
45°	8031.5	7861.0	7443.6	7470.5	7742.0	7786.9	8083.1	8040.5	7468.2	7567.0	9586.6
47.5°	8455.6	8307.5	7919.3	7896.9	8235.7	8291.8	8935.9	9016.6	8287.3	8413.0	10459.6
50°	8803.5	8700.2	8381.6	8413.0	8772.0	8828.1	9781.9	9954.7	9059.3	9279.2	11473.9
52.5°	9223.1	9075.0	8828.1	8976.2	9416.1	9483.4	10722.1	10908.4	9754.9	10230.7	12524.1
55°	9458.7	9398.1	9402.6	9629.3	10181.3	10273.3	11707.3	11675.9	10392.3	11045.3	13314.0
57.5°	10001.8	9979.3	10185.8	10271.1	11074.4	11193.4	12692.4	12423.1	10971.2	11675.9	13693.3
60°	10960.0	10903.9	11083.4	11213.6	12178.5	12346.8	13792.0	13154.7	11363.9	12144.9	13565.4
62.5°	12306.4	12236.9	12243.6	12450.1	13657.4	13834.6	15015.0	13765.1	11485.1	12216.7	12755.3
65°	13980.5	13879.5	13765.1	14045.6	15620.9	15769.0	16345.8	14209.4	11195.6	11525.5	11063.2
67.5°	15746.6	15663.6	15528.9	16116.9	18163.4	18253.2	17838.1	14171.3	10277.8	9676.4	7760.0
70°	15849.8	15870.0	16507.3	18634.7	21482.4	21504.9	19249.6	13403.8	8323.2	6272.2	3866.5
72.5°	14786.1	14752.5	15582.8	19094.7	24152.8	24229.1	19916.1	10859.0	5143.4	3128.2	1813.2
75°	12010.2	12068.6	12941.5	16707.0	20701.5	20768.8	16235.8	6402.3	2443.8	1530.5	1160.2
77.5°	5170.3	5495.7	7216.9	11770.1	14826.5	14617.8	8368.1	2594.1	1303.8	1090.6	888.6
80°	1492.3	1620.2	2571.7	5596.7	8884.2	8727.2	3312.2	971.7	908.8	819.1	637.3
82.5°	482.5	534.1	942.5	2228.4	3981.0	3976.5	1256.7	574.5	594.7	556.5	410.7
85°	134.6	154.8	289.5	675.5	1232.0	1207.3	363.5	271.5	316.4	320.9	204.2
87.5°	0.0	0.0	2.2	4.5	4.5	4.5	9.0	40.4	92.0	116.7	83.0
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°	4425.3	4425.3	4425.3	4425.3	4425.3	4425.3	4425.3	4425.3	4425.3	4425.3	4425.3
2.5°	4452.2	4445.5	4537.5	4609.3	4676.6	4721.5	4735.0	4743.9	4761.9	4770.9	4761.9
5°	4483.6	4517.3	4669.9	4782.1	4871.9	4925.7	4928.0	4923.5	4936.9	4925.7	4919.0
7.5°	4551.0	4616.0	4809.0	4928.0	4986.3	4988.6	4934.7	4871.9	4840.4	4813.5	4804.5
10°	4640.7	4737.2	4948.2	5026.7	5008.7	4925.7	4806.8	4708.0	4651.9	4611.5	4602.6
12.5°	4764.1	4871.9	5071.6	5069.3	4957.1	4809.0	4669.9	4551.0	4470.2	4423.0	4407.3
15°	4880.8	5017.7	5161.3	5055.9	4878.6	4699.1	4519.5	4360.2	4252.5	4178.4	4165.0
17.5°	5024.5	5170.3	5226.4	5013.2	4779.9	4548.7	4308.6	4099.9	3954.0	3866.5	3859.8
20°	5190.5	5320.7	5257.8	4939.2	4651.9	4349.0	4023.6	3790.2	3633.1	3547.9	3554.6
22.5°	5383.5	5477.8	5266.8	4838.2	4474.7	4066.2	3702.7	3478.3	3372.8	3327.9	3330.2
25°	5590.0	5650.5	5251.1	4701.3	4203.1	3720.7	3372.8	3269.6	3260.6	3249.4	3253.9
27.5°	5834.6	5821.1	5204.0	4508.3	3837.3	3319.0	3141.7	3168.6	3204.5	3200.0	3204.5
30°	6162.2	6034.3	5143.4	4241.3	3402.0	2982.4	3004.8	3081.1	3128.2	3132.7	3146.2
32.5°	6537.0	6269.9	5046.9	3877.7	2986.8	2793.9	2876.9	2968.9	3025.0	3036.2	3054.2
35°	6983.5	6539.2	4876.3	3424.4	2688.4	2681.7	2758.0	2820.8	2881.4	2885.9	2885.9
37.5°	7497.4	6808.5	4604.8	2924.0	2504.4	2585.2	2657.0	2670.4	2686.1	2672.7	2679.4
40°	7968.7	7068.8	4218.8	2468.5	2354.0	2499.9	2560.5	2515.6	2466.2	2432.6	2439.3
42.5°	8363.6	7246.1	3707.2	2149.8	2201.4	2423.6	2470.7	2378.7	2282.2	2219.4	2228.4
45°	8807.9	7409.9	3105.8	1934.4	2071.3	2369.7	2401.1	2282.2	2158.8	2064.5	2051.1
47.5°	9420.6	7744.3	2571.7	1784.0	1979.3	2340.6	2392.2	2230.6	2069.0	1927.6	1911.9
50°	10176.8	8217.8	2125.1	1685.3	1936.6	2324.8	2389.9	2174.5	1981.5	1815.4	1804.2
52.5°	11002.6	8680.0	1795.2	1609.0	1894.0	2277.7	2378.7	2111.7	1889.5	1710.0	1696.5
55°	11552.4	8861.8	1573.1	1537.2	1824.4	2203.7	2333.8	2051.1	1750.4	1586.6	1566.4
57.5°	11714.0	8628.4	1418.2	1472.1	1734.7	2100.4	2248.6	1923.2	1665.1	1534.9	1519.2
60°	11435.7	8040.5	1321.8	1418.2	1635.9	1968.0	2100.4	1849.1	1597.8	1481.1	1469.9
62.5°	10650.3	7133.9	1247.7	1362.1	1534.9	1828.9	2006.2	1759.3	1523.7	1431.7	1416.0
65°	9070.5	5850.3	1187.1	1303.8	1438.4	1696.5	1903.0	1669.6	1442.9	1373.4	1355.4
67.5°	6344.0	4108.9	1122.0	1234.2	1341.9	1568.6	1795.2	1586.6	1359.9	1308.3	1290.3
70°	3101.3	2179.0	1043.5	1153.4	1238.7	1438.4	1687.5	1485.6	1249.9	1220.8	1196.1
72.5°	1476.6	1218.5	951.5	1043.5	1097.3	1265.7	1508.0	1339.7	1119.8	1057.0	1014.3
75°	989.6	866.2	830.3	913.3	926.8	1061.4	1292.6	1155.7	987.4	915.6	879.7
77.5°	749.5	662.0	697.9	772.0	745.0	872.9	1063.7	1030.0	890.9	825.8	807.9
80°	527.4	482.5	554.3	599.2	579.0	742.8	958.2	881.9	733.8	662.0	648.5
82.5°	332.1	323.1	408.4	415.2	421.9	587.9	787.7	693.4	570.0	469.0	435.3
85°	166.1	184.0	244.6	244.6	242.4	302.9	448.8	390.5	307.4	244.6	237.9
87.5°	56.1	78.5	105.5	85.3	65.1	51.6	58.3	71.8	76.3	74.1	74.1
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)