

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: P638285

Luminaire Tested: GWS-SA4E-740-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638285
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-740-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (64) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29559.5 lumens
Efficiency: N/A
Efficacy: 145.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

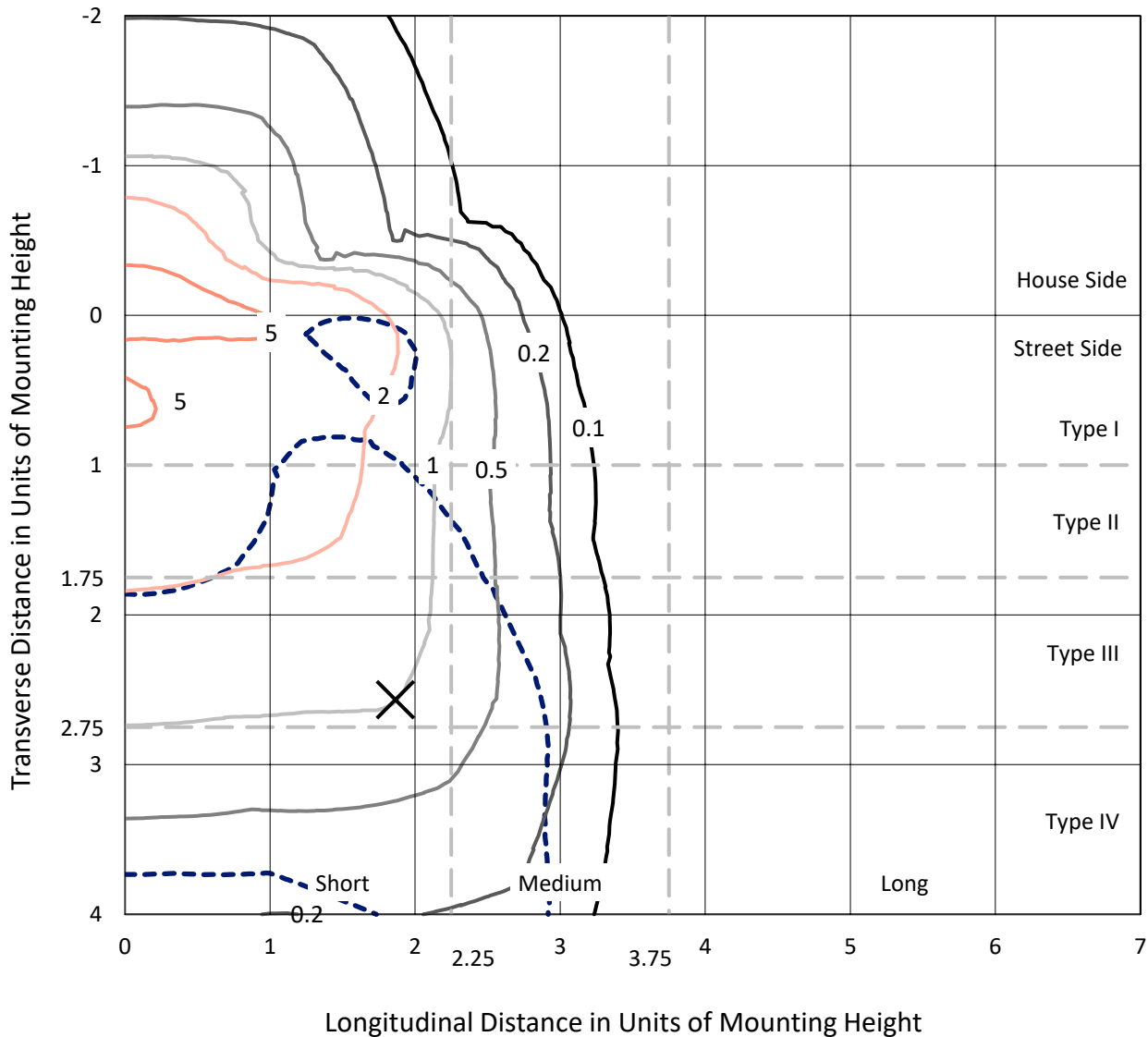
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

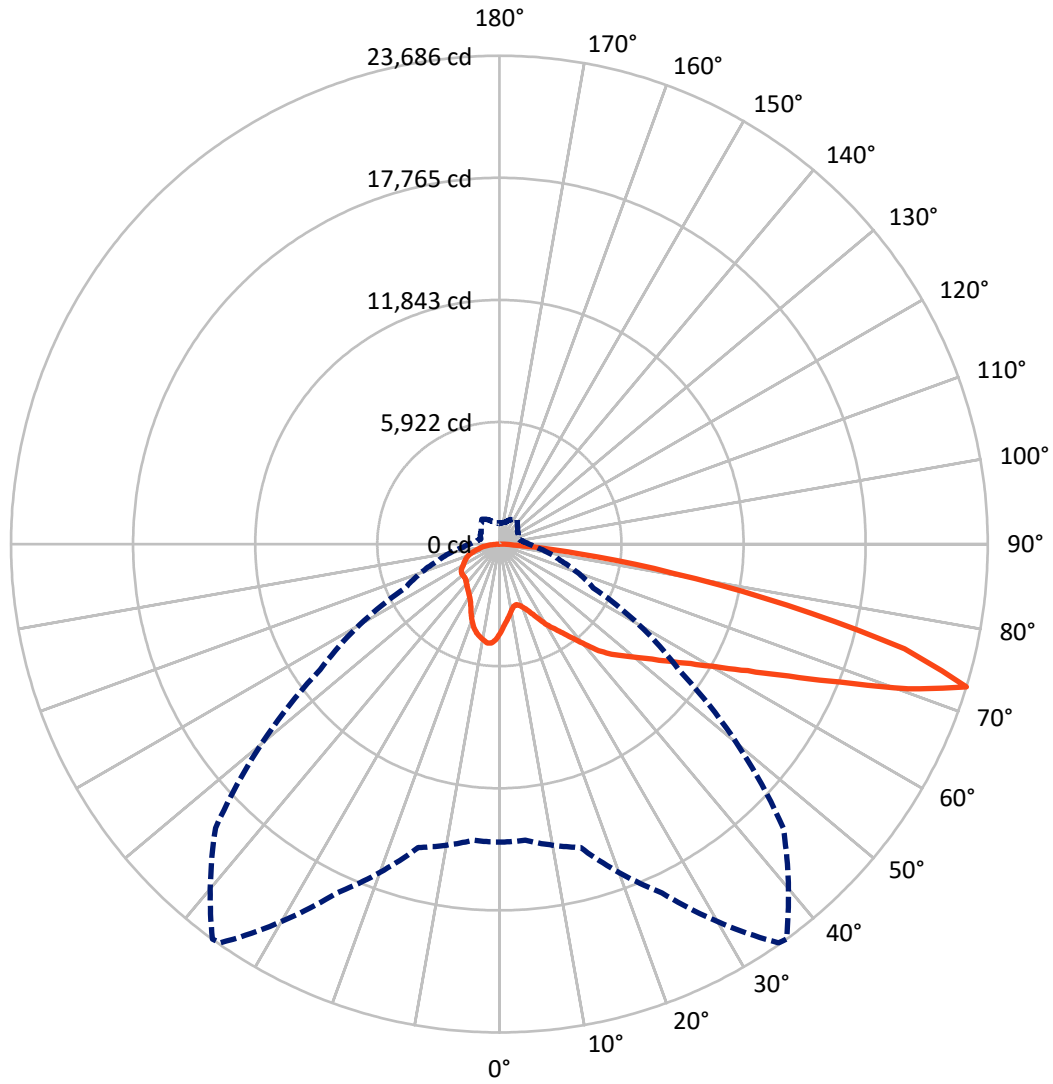
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.4 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	6814.7	0.0	6814.7
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	22744.8	0.0	22744.8
	% Fixture	76.9	0.0	76.9
Total	Lumens	29559.5	0.0	29559.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	404.4	1.4
10°-20°	1140.9	3.9
20°-30°	1889.5	6.4
30°-40°	2829.7	9.6
40°-50°	4128.3	14.0
50°-60°	5875.8	19.9
60°-70°	7423.6	25.1
70°-80°	5289.9	17.9
80°-90°	577.5	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°	29559.5	100.0
0°-180°	29559.5	100.0

Coefficient of Utilization



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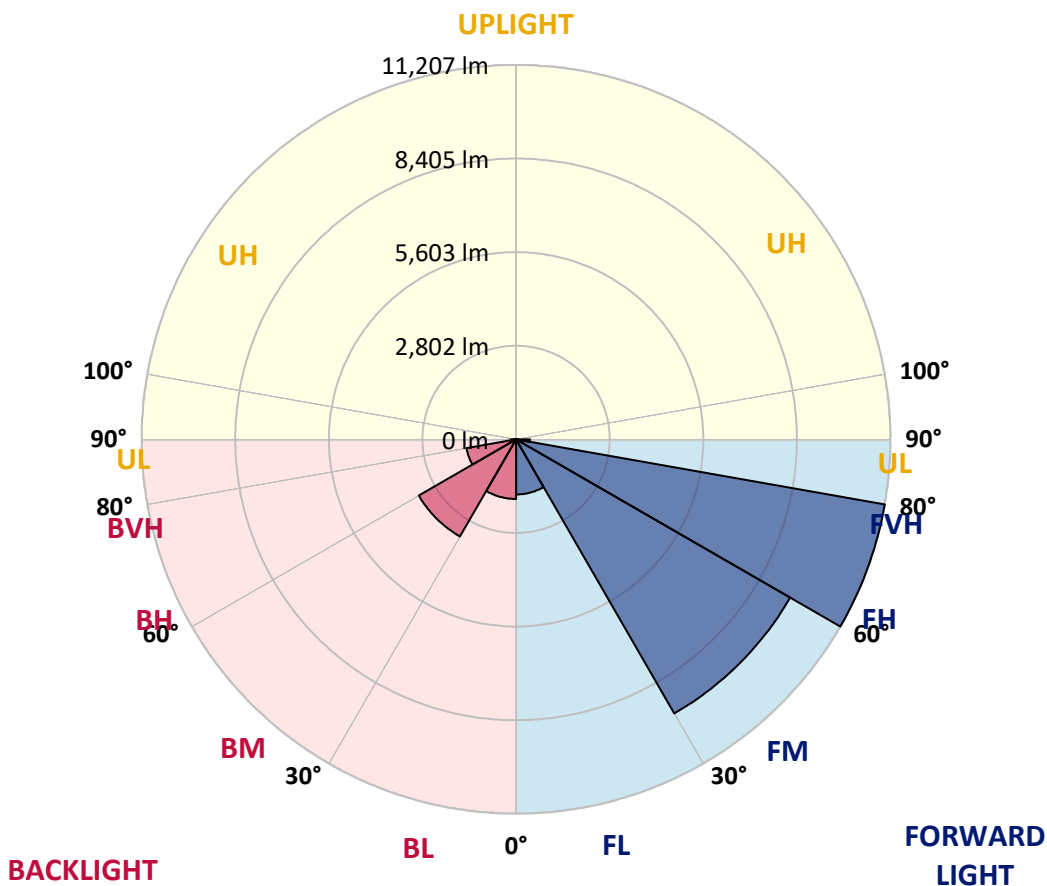
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1650.2	5.6			
FM (30°-60°)	9473.1	32.0			
FH (60°-80°)	11207.0	37.9			G4/12000
FVH (80°-90°)	414.5	1.4			G3/500
BL (0°-30°)	1784.6	6.0	B3/2500		
BM (30°-60°)	3360.6	11.4	B3/5000		
BH (60°-80°)	1506.6	5.1	B3/2500		G3/2500
BVH (80°-90°)	163.0	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°	4326.2	4326.2	4326.2	4326.2	4326.2	4326.2	4326.2	4326.2	4326.2	4326.2	4326.2
2.5°	3946.6	3940.1	3926.9	3966.4	4005.9	4001.5	4056.3	4109.0	4166.0	4225.3	4304.2
5°	3630.7	3626.3	3615.4	3674.6	3733.8	3731.6	3821.6	3907.2	4023.4	4150.7	4308.6
7.5°	3314.8	3303.9	3319.2	3393.8	3477.2	3485.9	3608.8	3749.2	3918.1	4109.0	4332.7
10°	3036.2	3034.0	3040.6	3124.0	3249.0	3257.8	3415.7	3611.0	3834.8	4089.2	4387.6
12.5°	2963.8	2959.4	2941.9	2983.6	3077.9	3091.1	3264.4	3503.5	3777.7	4100.2	4462.2
15°	3082.3	3071.3	3009.9	2990.1	3036.2	3047.2	3194.2	3439.9	3744.8	4119.9	4556.5
17.5°	3286.3	3279.7	3163.5	3082.3	3113.0	3121.8	3231.5	3428.9	3736.0	4159.4	4672.8
20°	3584.7	3556.1	3374.1	3251.2	3251.2	3264.4	3330.2	3477.2	3747.0	4207.7	4804.4
22.5°	3979.5	3922.5	3665.8	3499.1	3455.2	3472.8	3501.3	3597.8	3793.1	4288.9	4968.9
25°	4422.7	4370.0	4065.1	3830.4	3768.9	3775.5	3751.4	3768.9	3894.0	4400.8	5173.0
27.5°	4894.4	4859.3	4534.6	4236.2	4139.7	4139.7	4054.1	4012.5	4034.4	4528.0	5401.1
30°	5315.6	5267.3	4993.1	4666.2	4539.0	4539.0	4376.6	4286.7	4234.0	4683.8	5706.1
32.5°	5537.1	5508.6	5326.5	5076.4	4920.7	4896.6	4756.1	4650.8	4528.0	4914.1	6118.5
35°	5826.7	5820.1	5710.5	5515.2	5317.8	5282.7	5186.1	5102.8	4890.0	5201.5	6666.9
37.5°	6190.9	6179.9	6162.4	6046.1	5809.2	5802.6	5717.0	5616.1	5339.7	5616.1	7331.7
40°	6598.9	6579.2	6557.3	6555.1	6412.5	6388.3	6381.8	6267.7	5881.6	6116.3	8024.9
42.5°	7160.5	7092.5	6886.3	6978.5	7083.8	7061.8	7145.2	6974.1	6557.3	6710.8	8680.8
45°	7851.6	7684.9	7276.8	7303.1	7568.6	7612.5	7902.1	7860.4	7301.0	7397.5	9371.9
47.5°	8266.2	8121.4	7741.9	7720.0	8051.2	8106.1	8735.7	8814.7	8101.7	8224.5	10225.3
50°	8606.3	8505.3	8193.8	8224.5	8575.5	8630.4	9562.8	9731.7	8856.4	9071.3	11216.9
52.5°	9016.5	8871.7	8630.4	8775.2	9205.2	9271.0	10482.0	10664.0	9536.4	10001.5	12243.6
55°	9246.8	9187.6	9192.0	9413.6	9953.3	10043.2	11445.0	11414.3	10159.5	10797.9	13015.8
57.5°	9777.7	9755.8	9957.6	10041.0	10826.4	10942.7	12408.1	12144.9	10725.5	11414.3	13386.5
60°	10714.5	10659.7	10835.2	10962.4	11905.7	12070.3	13483.1	12860.0	11109.4	11872.8	13261.5
62.5°	12030.8	11962.8	11969.3	12171.2	13351.4	13524.8	14678.7	13456.7	11227.8	11943.0	12469.5
65°	13667.3	13568.6	13456.7	13731.0	15271.0	15415.8	15979.6	13891.1	10944.8	11267.3	10815.4
67.5°	15393.9	15312.7	15181.1	15755.8	17756.6	17844.3	17438.5	13853.8	10047.6	9459.6	7586.1
70°	15494.8	15514.5	16137.6	18217.3	21001.2	21023.1	18818.4	13103.5	8136.8	6131.7	3779.9
72.5°	14454.9	14422.0	15233.7	18667.0	23611.8	23686.4	19469.9	10615.8	5028.2	3058.2	1772.6
75°	11741.2	11798.2	12651.6	16332.8	20237.8	20303.6	15872.1	6258.9	2389.0	1496.2	1134.2
77.5°	5054.5	5372.6	7055.2	11506.5	14494.4	14290.4	8180.7	2536.0	1274.6	1066.2	868.7
80°	1458.9	1583.9	2514.1	5471.3	8685.2	8531.7	3238.0	949.9	888.5	800.7	623.0
82.5°	471.7	522.1	921.4	2178.4	3891.8	3887.4	1228.5	561.6	581.4	544.1	401.5
85°	131.6	151.4	283.0	660.3	1204.4	1180.3	355.4	265.4	309.3	313.7	199.6
87.5°	0.0	0.0	2.2	4.4	4.4	4.4	8.8	39.5	89.9	114.1	81.2
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°	4326.2	4326.2	4326.2	4326.2	4326.2	4326.2	4326.2	4326.2	4326.2	4326.2	4326.2
2.5°	4352.5	4345.9	4435.9	4506.1	4571.9	4615.7	4628.9	4637.7	4655.2	4664.0	4655.2
5°	4383.2	4416.1	4565.3	4675.0	4762.7	4815.4	4817.6	4813.2	4826.4	4815.4	4808.8
7.5°	4449.0	4512.6	4701.3	4817.6	4874.6	4876.8	4824.2	4762.7	4732.0	4705.7	4696.9
10°	4536.8	4631.1	4837.3	4914.1	4896.6	4815.4	4699.1	4602.6	4547.7	4508.3	4499.5
12.5°	4657.4	4762.7	4958.0	4955.8	4846.1	4701.3	4565.3	4449.0	4370.0	4324.0	4308.6
15°	4771.5	4905.3	5045.7	4942.6	4769.3	4593.8	4418.3	4262.5	4157.2	4084.8	4071.7
17.5°	4911.9	5054.5	5109.4	4900.9	4672.8	4446.8	4212.1	4008.1	3865.5	3779.9	3773.3
20°	5074.2	5201.5	5140.1	4828.5	4547.7	4251.6	3933.5	3705.3	3551.8	3468.4	3475.0
22.5°	5262.9	5355.1	5148.8	4729.8	4374.4	3975.2	3619.8	3400.4	3297.3	3253.4	3255.6
25°	5464.7	5524.0	5133.5	4596.0	4109.0	3637.3	3297.3	3196.4	3187.6	3176.6	3181.0
27.5°	5703.9	5690.7	5087.4	4407.3	3751.4	3244.6	3071.3	3097.6	3132.7	3128.4	3132.7
30°	6024.2	5899.1	5028.2	4146.3	3325.8	2915.6	2937.5	3012.1	3058.2	3062.5	3075.7
32.5°	6390.5	6129.5	4933.8	3790.9	2919.9	2731.3	2812.4	2902.4	2957.2	2968.2	2985.8
35°	6827.1	6392.7	4767.1	3347.7	2628.2	2621.6	2696.2	2757.6	2816.8	2821.2	2821.2
37.5°	7329.5	6656.0	4501.7	2858.5	2448.3	2527.3	2597.5	2610.6	2626.0	2612.8	2619.4
40°	7790.2	6910.5	4124.3	2413.2	2301.3	2443.9	2503.1	2459.2	2411.0	2378.1	2384.7
42.5°	8176.3	7083.8	3624.2	2101.7	2152.1	2369.3	2415.4	2325.4	2231.1	2169.7	2178.4
45°	8610.6	7243.9	3036.2	1891.1	2024.9	2316.6	2347.4	2231.1	2110.4	2018.3	2005.1
47.5°	9209.6	7570.8	2514.1	1744.1	1934.9	2288.1	2338.6	2180.6	2022.7	1884.5	1869.1
50°	9948.9	8033.7	2077.5	1647.5	1893.2	2272.8	2336.4	2125.8	1937.1	1774.8	1763.8
52.5°	10756.2	8485.6	1755.0	1573.0	1851.6	2226.7	2325.4	2064.4	1847.2	1671.7	1658.5
55°	11293.7	8663.3	1537.9	1502.8	1783.6	2154.3	2281.5	2005.1	1711.2	1551.0	1531.3
57.5°	11451.6	8435.1	1386.5	1439.1	1695.8	2053.4	2198.2	1880.1	1627.8	1500.6	1485.2
60°	11179.6	7860.4	1292.1	1386.5	1599.3	1924.0	2053.4	1807.7	1562.0	1447.9	1436.9
62.5°	10411.8	6974.1	1219.8	1331.6	1500.6	1787.9	1961.3	1719.9	1489.6	1399.6	1384.3
65°	8867.3	5719.2	1160.5	1274.6	1406.2	1658.5	1860.3	1632.2	1410.6	1342.6	1325.1
67.5°	6201.9	4016.8	1096.9	1206.6	1311.9	1533.5	1755.0	1551.0	1329.4	1279.0	1261.4
70°	3031.8	2130.2	1020.1	1127.6	1211.0	1406.2	1649.7	1452.3	1221.9	1193.4	1169.3
72.5°	1443.5	1191.2	930.2	1020.1	1072.8	1237.3	1474.2	1309.7	1094.7	1033.3	991.6
75°	967.5	846.8	811.7	892.9	906.0	1037.7	1263.6	1129.8	965.3	895.1	860.0
77.5°	732.7	647.2	682.3	754.7	728.3	853.4	1039.9	1007.0	870.9	807.3	789.8
80°	515.5	471.7	541.9	585.7	566.0	726.1	936.8	862.2	717.4	647.2	634.0
82.5°	324.7	315.9	399.3	405.9	412.4	574.8	770.0	677.9	557.2	458.5	425.6
85°	162.3	179.9	239.1	239.1	236.9	296.2	438.8	381.7	300.6	239.1	232.5
87.5°	54.8	76.8	103.1	83.4	63.6	50.5	57.0	70.2	74.6	72.4	72.4
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)