

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: P641255

Luminaire Tested: GWS-SA5F-740-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641255
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-SA5F-740-U-T4FT-W
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV FORWARD THROW OPTICS
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 40315.6 lumens
Efficiency: N/A
Efficacy: 129.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

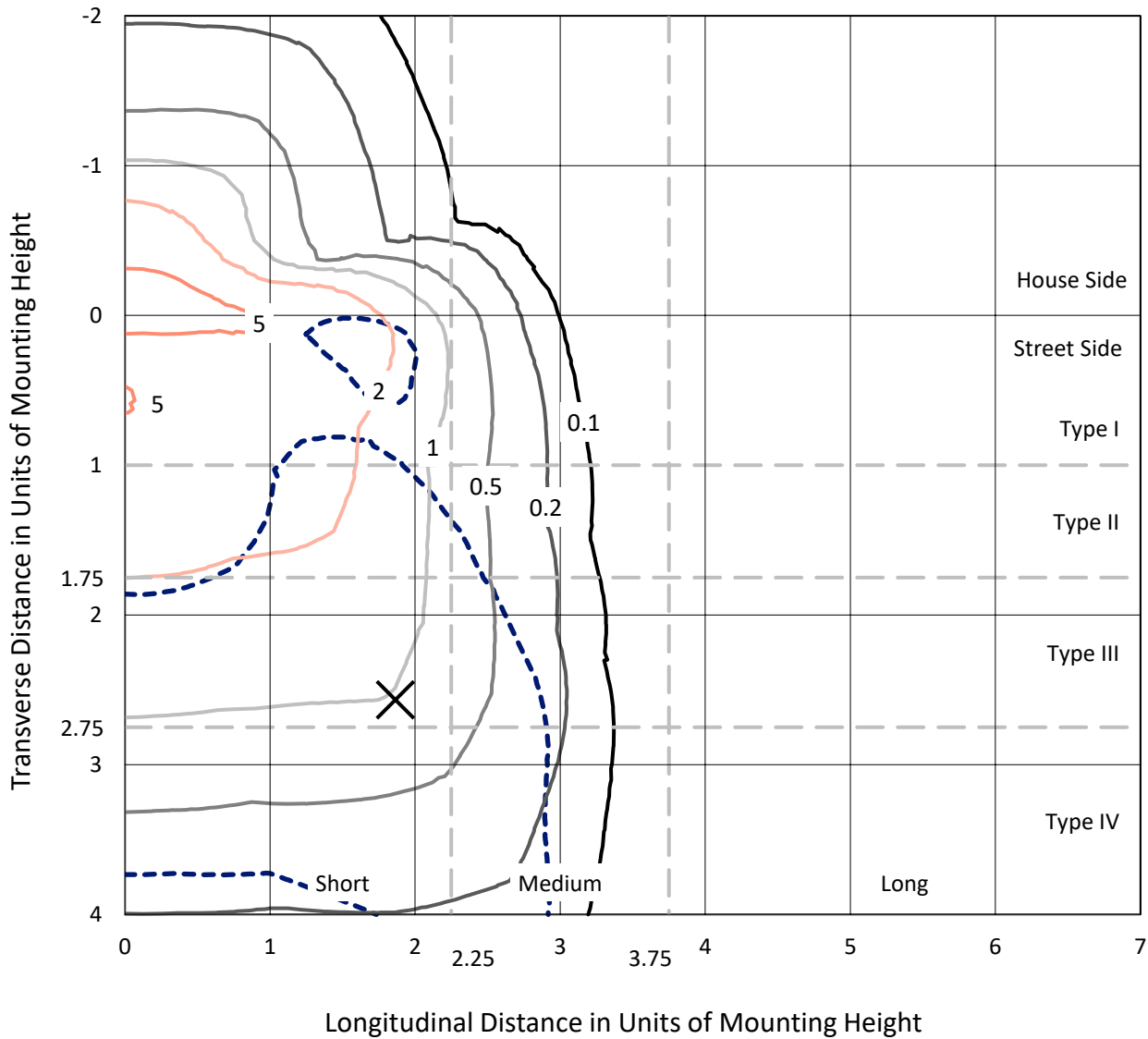
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

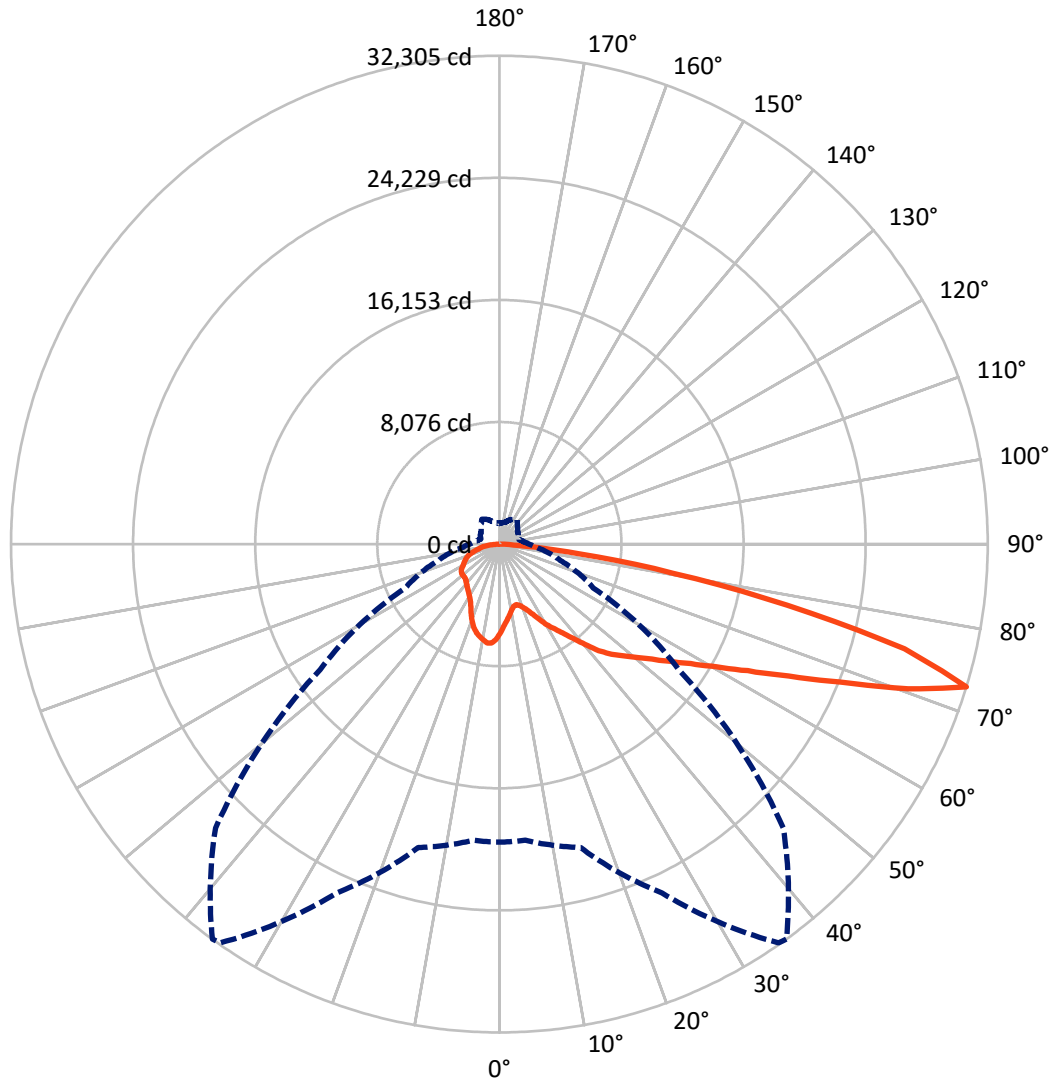
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 7 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	9294.5	0.0	9294.5
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	31021.1	0.0	31021.1
	% Fixture	76.9	0.0	76.9
Total	Lumens	40315.6	0.0	40315.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	551.5	1.4
10°-20°	1556.1	3.9
20°-30°	2577.0	6.4
30°-40°	3859.3	9.6
40°-50°	5630.4	14.0
50°-60°	8013.8	19.9
60°-70°	10124.9	25.1
70°-80°	7214.8	17.9
80°-90°	787.6	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°	40315.6	100.0
0°-180°	40315.6	100.0

Coefficient of Utilization



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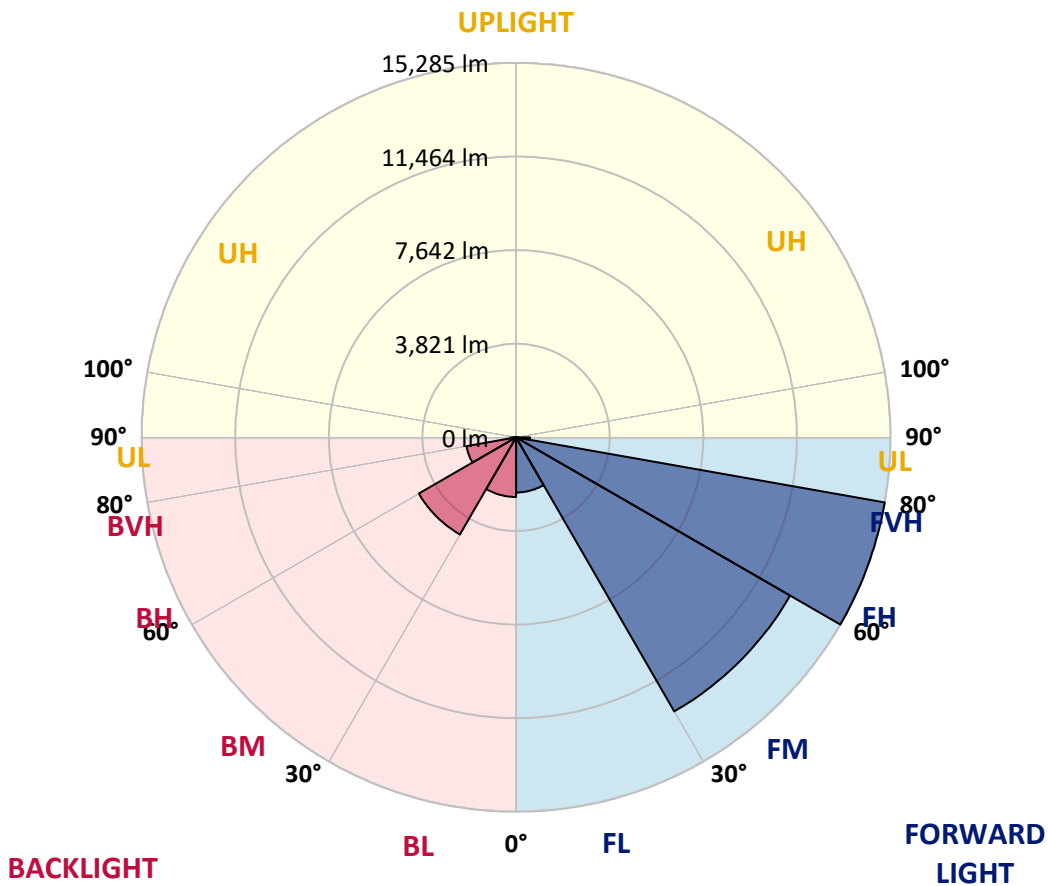
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2250.7	5.6			
FM (30°-60°)	12920.1	32.0			
FH (60°-80°)	15285.0	37.9			G5
FVH (80°-90°)	565.3	1.4			G4/750
BL (0°-30°)	2433.9	6.0	B3/2500		
BM (30°-60°)	4583.5	11.4	B3/5000		
BH (60°-80°)	2054.8	5.1	B3/2500		G3/2500
BVH (80°-90°)	222.3	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-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	36°	45°	55°	65°	75°	85°
0°	5900.4	5900.4	5900.4	5900.4	5900.4	5900.4	5900.4	5900.4	5900.4	5900.4	5900.4
2.5°	5382.7	5373.8	5355.8	5409.7	5463.5	5457.5	5532.3	5604.2	5681.9	5762.7	5870.4
5°	4951.9	4945.9	4930.9	5011.7	5092.5	5089.5	5212.2	5328.9	5487.5	5661.0	5876.4
7.5°	4521.0	4506.1	4527.0	4628.7	4742.4	4754.4	4922.0	5113.5	5343.8	5604.2	5909.3
10°	4141.0	4138.0	4147.0	4260.7	4431.3	4443.2	4658.7	4925.0	5230.1	5577.2	5984.1
12.5°	4042.3	4036.3	4012.4	4069.2	4197.9	4215.8	4452.2	4778.3	5152.4	5592.2	6085.9
15°	4203.9	4188.9	4105.1	4078.2	4141.0	4156.0	4356.5	4691.6	5107.5	5619.1	6214.5
17.5°	4482.1	4473.1	4314.6	4203.9	4245.8	4257.7	4407.3	4676.6	5095.5	5673.0	6373.1
20°	4889.0	4850.2	4601.8	4434.3	4434.3	4452.2	4542.0	4742.4	5110.5	5738.8	6552.6
22.5°	5427.6	5349.8	4999.8	4772.4	4712.5	4736.5	4775.3	4907.0	5173.3	5849.5	6777.0
25°	6032.0	5960.2	5544.3	5224.2	5140.4	5149.4	5116.4	5140.4	5310.9	6002.1	7055.3
27.5°	6675.3	6627.4	6184.6	5777.7	5646.0	5646.0	5529.4	5472.5	5502.4	6175.6	7366.5
30°	7249.8	7184.0	6810.0	6364.1	6190.6	6190.6	5969.2	5846.5	5774.7	6388.1	7782.4
32.5°	7552.0	7513.1	7264.8	6923.7	6711.2	6678.3	6486.8	6343.2	6175.6	6702.2	8344.9
35°	7946.9	7938.0	7788.4	7522.1	7252.8	7204.9	7073.3	6959.6	6669.3	7094.2	9092.9
37.5°	8443.6	8428.7	8404.7	8246.2	7923.0	7914.0	7797.3	7659.7	7282.7	7659.7	9999.5
40°	9000.2	8973.2	8943.3	8940.3	8745.8	8712.9	8703.9	8548.4	8021.7	8341.9	10945.0
42.5°	9766.1	9673.4	9392.1	9517.8	9661.4	9631.5	9745.2	9511.8	8943.3	9152.8	11839.6
45°	10708.6	10481.2	9924.7	9960.6	10322.7	10382.5	10777.4	10720.6	9957.6	10089.3	12782.1
47.5°	11274.1	11076.7	10559.0	10529.1	10980.9	11055.7	11914.4	12022.2	11049.7	11217.3	13946.1
50°	11737.9	11600.3	11175.4	11217.3	11696.0	11770.8	13042.4	13272.8	12079.0	12372.2	15298.5
52.5°	12297.4	12099.9	11770.8	11968.3	12554.7	12644.5	14296.1	14544.5	13006.5	13640.9	16698.8
55°	12611.6	12530.8	12536.8	12839.0	13575.0	13697.7	15609.6	15567.8	13856.3	14727.0	17752.0
57.5°	13335.7	13305.8	13581.0	13694.7	14765.9	14924.5	16923.2	16564.1	14628.2	15567.8	18257.6
60°	14613.3	14538.5	14777.9	14951.4	16238.0	16462.4	18389.3	17539.5	15151.9	16193.1	18087.1
62.5°	16408.5	16315.8	16324.8	16600.0	18209.8	18446.1	20020.0	18353.4	15313.4	16288.8	17006.9
65°	18640.6	18506.0	18353.4	18727.4	20827.8	21025.3	21794.3	18945.8	14927.5	15367.3	14750.9
67.5°	20995.4	20884.7	20705.1	21489.1	24217.8	24337.5	23784.0	18894.9	13703.7	12901.8	10346.6
70°	21133.0	21159.9	22009.7	24846.2	28643.1	28673.0	25666.0	17871.7	11097.6	8362.8	5155.3
72.5°	19714.8	19669.9	20777.0	25459.6	32203.7	32305.4	26554.7	14478.6	6857.8	4171.0	2417.6
75°	16013.6	16091.4	17255.3	22276.0	27601.9	27691.6	21647.7	8536.4	3258.4	2040.6	1546.9
77.5°	6893.7	7327.6	9622.5	15693.4	19768.6	19490.4	11157.4	3458.8	1738.4	1454.1	1184.9
80°	1989.7	2160.3	3428.9	7462.2	11845.6	11636.2	4416.3	1295.6	1211.8	1092.1	849.7
82.5°	643.3	712.1	1256.7	2971.1	5307.9	5302.0	1675.6	766.0	792.9	742.0	547.5
85°	179.5	206.5	386.0	900.6	1642.6	1609.7	484.7	362.0	421.9	427.9	272.3
87.5°	0.0	0.0	3.0	6.0	6.0	6.0	12.0	53.9	122.7	155.6	110.7
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°	5900.4	5900.4	5900.4	5900.4	5900.4	5900.4	5900.4	5900.4	5900.4	5900.4	5900.4
2.5°	5936.3	5927.3	6050.0	6145.7	6235.5	6295.3	6313.3	6325.2	6349.2	6361.1	6349.2
5°	5978.2	6023.0	6226.5	6376.1	6495.8	6567.6	6570.6	6564.6	6582.6	6567.6	6558.6
7.5°	6067.9	6154.7	6412.0	6570.6	6648.4	6651.4	6579.6	6495.8	6453.9	6418.0	6406.0
10°	6187.6	6316.3	6597.5	6702.2	6678.3	6567.6	6409.0	6277.4	6202.6	6148.7	6136.7
12.5°	6352.2	6495.8	6762.1	6759.1	6609.5	6412.0	6226.5	6067.9	5960.2	5897.4	5876.4
15°	6507.8	6690.3	6881.8	6741.1	6504.8	6265.4	6026.0	5813.6	5670.0	5571.2	5553.3
17.5°	6699.3	6893.7	6968.5	6684.3	6373.1	6064.9	5744.8	5466.5	5272.0	5155.3	5146.4
20°	6920.7	7094.2	7010.4	6585.6	6202.6	5798.6	5364.8	5053.6	4844.2	4730.5	4739.4
22.5°	7178.0	7303.7	7022.4	6450.9	5966.2	5421.6	4936.9	4637.7	4497.1	4437.2	4440.2
25°	7453.3	7534.0	7001.5	6268.4	5604.2	4960.9	4497.1	4359.5	4347.5	4332.5	4338.5
27.5°	7779.4	7761.4	6938.6	6011.1	5116.4	4425.3	4188.9	4224.8	4272.7	4266.7	4272.7
30°	8216.2	8045.7	6857.8	5655.0	4536.0	3976.5	4006.4	4108.1	4171.0	4176.9	4194.9
32.5°	8715.9	8359.9	6729.2	5170.3	3982.4	3725.1	3835.8	3958.5	4033.3	4048.3	4072.2
35°	9311.3	8718.9	6501.8	4565.9	3584.5	3575.5	3677.3	3761.0	3841.8	3847.8	3847.8
37.5°	9996.5	9078.0	6139.7	3898.7	3339.2	3446.9	3542.6	3560.6	3581.5	3563.6	3572.5
40°	10624.9	9425.0	5625.1	3291.3	3138.7	3333.2	3414.0	3354.1	3288.3	3243.4	3252.4
42.5°	11151.5	9661.4	4942.9	2866.4	2935.2	3231.4	3294.3	3171.6	3042.9	2959.2	2971.1
45°	11743.9	9879.8	4141.0	2579.2	2761.7	3159.6	3201.5	3042.9	2878.4	2752.7	2734.8
47.5°	12560.7	10325.6	3428.9	2378.7	2639.0	3120.7	3189.6	2974.1	2758.7	2570.2	2549.2
50°	13569.1	10957.0	2833.5	2247.0	2582.2	3099.8	3186.6	2899.3	2642.0	2420.6	2405.6
52.5°	14670.1	11573.3	2393.7	2145.3	2525.3	3037.0	3171.6	2815.5	2519.3	2280.0	2262.0
55°	15403.2	11815.7	2097.4	2049.6	2432.6	2938.2	3111.8	2734.8	2333.8	2115.4	2088.5
57.5°	15618.6	11504.5	1891.0	1962.8	2312.9	2800.6	2998.1	2564.2	2220.1	2046.6	2025.6
60°	15247.6	10720.6	1762.3	1891.0	2181.2	2624.0	2800.6	2465.5	2130.4	1974.8	1959.8
62.5°	14200.4	9511.8	1663.6	1816.2	2046.6	2438.5	2674.9	2345.8	2031.6	1908.9	1888.0
65°	12094.0	7800.3	1582.8	1738.4	1917.9	2262.0	2537.3	2226.1	1923.9	1831.1	1807.2
67.5°	8458.6	5478.5	1496.0	1645.6	1789.3	2091.5	2393.7	2115.4	1813.2	1744.4	1720.4
70°	4135.0	2905.3	1391.3	1537.9	1651.6	1917.9	2250.0	1980.8	1666.6	1627.7	1594.8
72.5°	1968.8	1624.7	1268.6	1391.3	1463.1	1687.5	2010.7	1786.3	1493.0	1409.3	1352.4
75°	1319.5	1154.9	1107.1	1217.8	1235.7	1415.3	1723.4	1540.9	1316.5	1220.8	1172.9
77.5°	999.4	882.7	930.5	1029.3	993.4	1163.9	1418.2	1373.4	1187.9	1101.1	1077.1
80°	703.1	643.3	739.0	798.9	772.0	990.4	1277.6	1175.9	978.4	882.7	864.7
82.5°	442.8	430.9	544.6	553.5	562.5	783.9	1050.2	924.6	760.0	625.3	580.5
85°	221.4	245.4	326.1	326.1	323.1	403.9	598.4	520.6	409.9	326.1	317.2
87.5°	74.8	104.7	140.6	113.7	86.8	68.8	77.8	95.7	101.7	98.7	98.7
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)