

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: P640760

Luminaire Tested: GWS-SA5E-740-U-T4FT-W

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640760
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-SA5E-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: 36261 lumens
Efficiency: N/A
Efficacy: 134.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G5

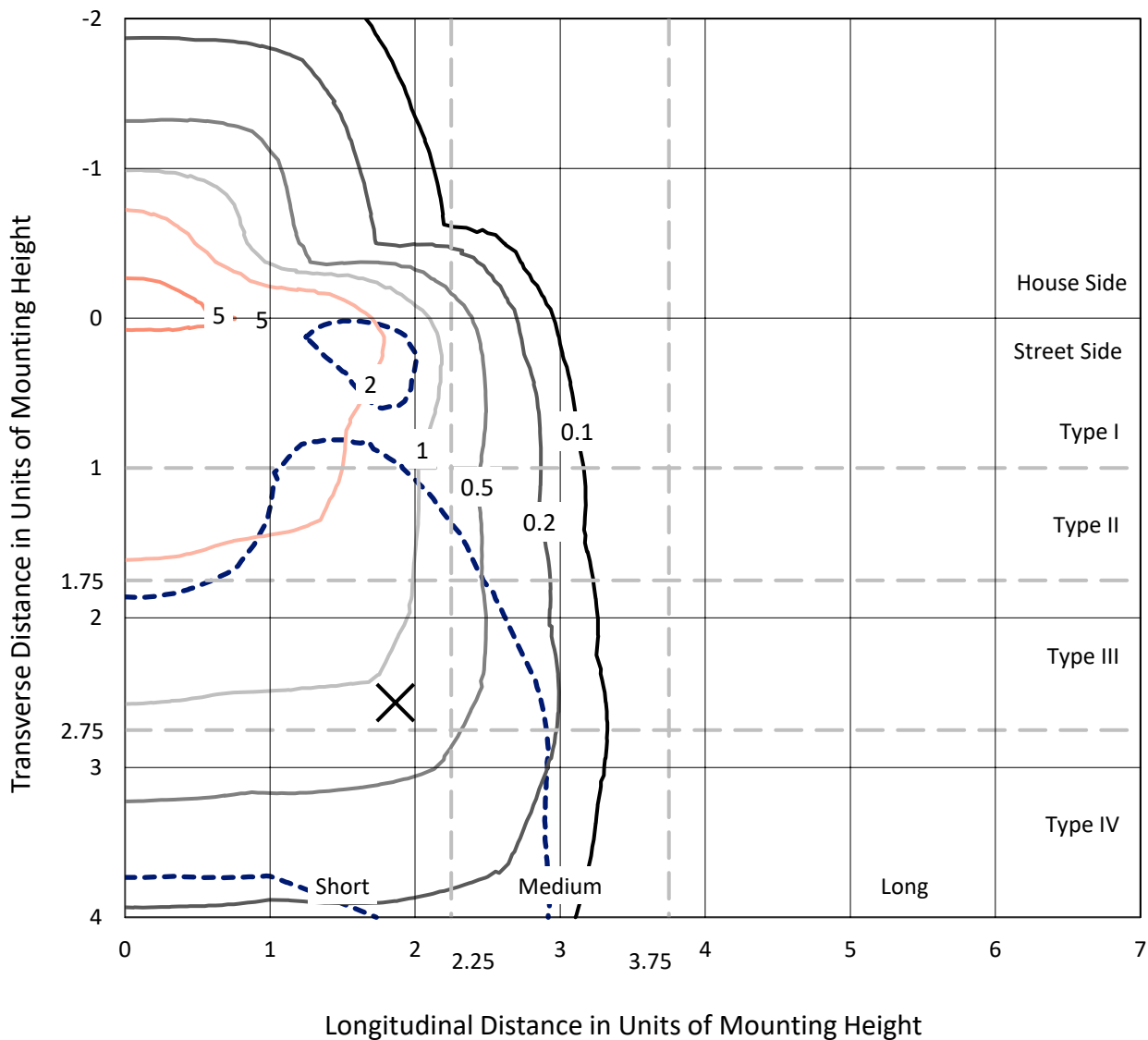
Input Watts (W): 269.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

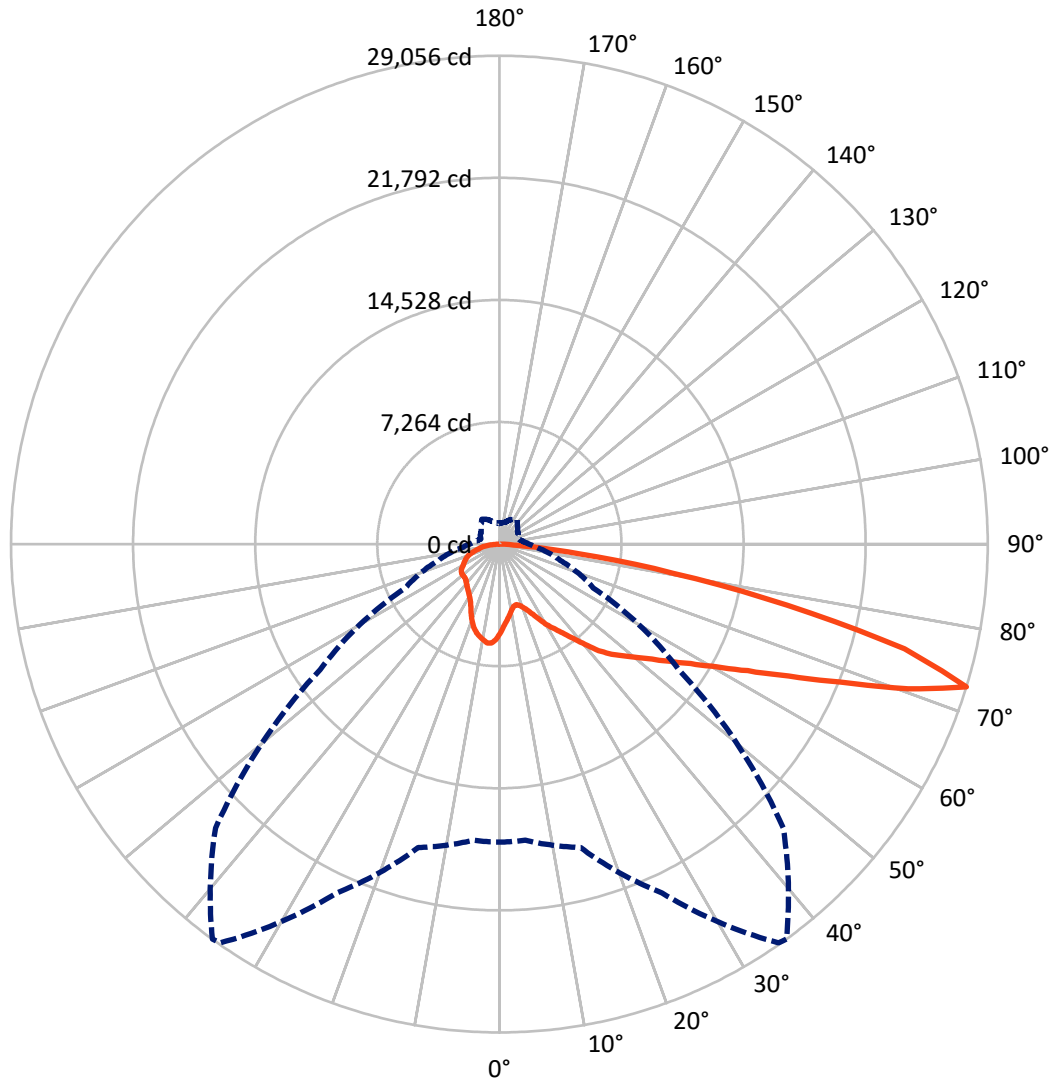
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.3 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	8359.7	0.0	8359.7
	% Fixture	23.1	0.0	23.1
Street Side	Lumens	27901.3	0.0	27901.3
	% Fixture	76.9	0.0	76.9
Total	Lumens	36261.0	0.0	36261.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	496.0	1.4
10°-20°	1399.6	3.9
20°-30°	2317.9	6.4
30°-40°	3471.2	9.6
40°-50°	5064.2	14.0
50°-60°	7207.9	19.9
60°-70°	9106.6	25.1
70°-80°	6489.2	17.9
80°-90°	708.4	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°	36261.0	100.0
0°-180°	36261.0	100.0

Coefficient of Utilization



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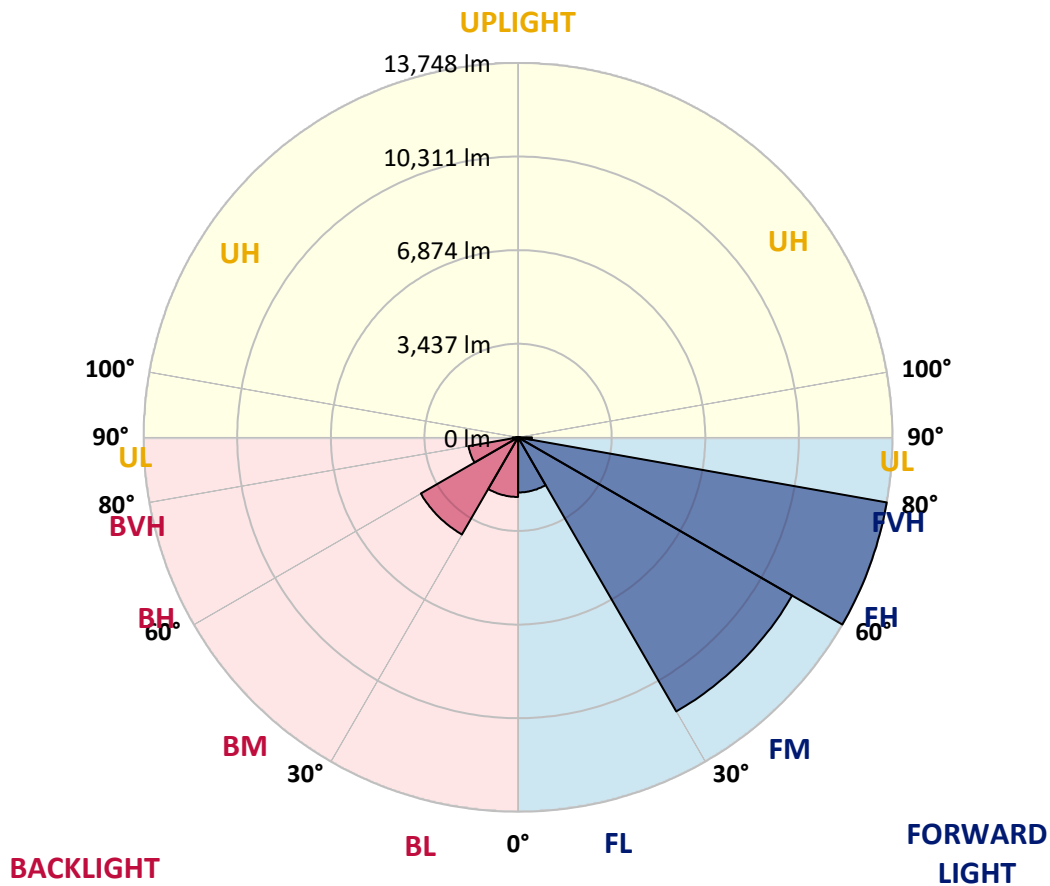
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2024.3	5.6			
FM (30°-60°)	11620.7	32.0			
FH (60°-80°)	13747.7	37.9			G5
FVH (80°-90°)	508.5	1.4			G4/750
BL (0°-30°)	2189.1	6.0	B3/2500		
BM (30°-60°)	4122.5	11.4	B3/5000		
BH (60°-80°)	1848.1	5.1	B3/2500		G3/2500
BVH (80°-90°)	199.9	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°	5307.0	5307.0	5307.0	5307.0	5307.0	5307.0	5307.0	5307.0	5307.0	5307.0	5307.0
2.5°	4841.4	4833.3	4817.2	4865.6	4914.1	4908.7	4975.9	5040.5	5110.5	5183.2	5280.0
5°	4453.9	4448.5	4435.0	4507.7	4580.3	4577.7	4688.0	4792.9	4935.6	5091.7	5285.4
7.5°	4066.3	4052.9	4071.7	4163.2	4265.5	4276.2	4427.0	4599.2	4806.4	5040.5	5315.0
10°	3724.6	3721.9	3729.9	3832.2	3985.6	3996.4	4190.1	4429.6	4704.1	5016.3	5382.3
12.5°	3635.8	3630.4	3608.8	3660.0	3775.7	3791.8	4004.4	4297.8	4634.2	5029.8	5473.8
15°	3781.1	3767.6	3692.3	3668.0	3724.6	3738.0	3918.3	4219.7	4593.8	5054.0	5589.5
17.5°	4031.4	4023.3	3880.6	3781.1	3818.8	3829.5	3964.1	4206.3	4583.0	5102.4	5732.2
20°	4397.3	4362.4	4139.0	3988.3	3988.3	4004.4	4085.2	4265.5	4596.5	5161.6	5893.6
22.5°	4881.8	4811.8	4496.9	4292.4	4238.6	4260.1	4295.1	4413.5	4653.0	5261.2	6095.5
25°	5425.4	5360.8	4986.7	4698.8	4623.4	4631.5	4601.9	4623.4	4776.8	5398.5	6345.7
27.5°	6004.0	5960.9	5562.6	5196.6	5078.2	5078.2	4973.3	4922.1	4949.0	5554.5	6625.6
30°	6520.7	6461.5	6125.1	5724.1	5568.0	5568.0	5368.9	5258.5	5193.9	5745.6	6999.7
32.5°	6792.5	6757.5	6534.1	6227.3	6036.3	6006.7	5834.4	5705.3	5554.5	6028.2	7505.6
35°	7147.7	7139.6	7005.1	6765.6	6523.4	6480.3	6361.9	6259.6	5998.6	6380.7	8178.4
37.5°	7594.4	7581.0	7559.5	7416.8	7126.2	7118.1	7013.2	6889.4	6550.3	6889.4	8993.8
40°	8095.0	8070.8	8043.9	8041.2	7866.2	7836.6	7828.6	7688.6	7215.0	7502.9	9844.2
42.5°	8783.9	8700.5	8447.5	8560.6	8689.7	8662.8	8765.1	8555.2	8043.9	8232.2	10648.9
45°	9631.6	9427.1	8926.6	8958.9	9284.5	9338.3	9693.5	9642.4	8956.2	9074.6	11496.6
47.5°	10140.3	9962.7	9497.1	9470.2	9876.5	9943.8	10716.2	10813.1	9938.4	10089.1	12543.5
50°	10557.4	10433.6	10051.5	10089.1	10519.7	10587.0	11730.7	11938.0	10864.2	11127.9	13759.9
52.5°	11060.7	10883.0	10587.0	10764.6	11292.1	11372.8	12858.3	13081.7	11698.5	12269.0	15019.3
55°	11343.2	11270.6	11275.9	11547.8	12209.8	12320.1	14039.8	14002.1	12462.7	13245.9	15966.6
57.5°	11994.5	11967.6	12215.2	12317.4	13280.9	13423.5	15221.2	14898.2	13157.1	14002.1	16421.4
60°	13143.6	13076.3	13291.6	13447.7	14604.9	14806.7	16539.8	15775.6	13628.0	14564.5	16268.0
62.5°	14758.3	14674.9	14682.9	14930.5	16378.4	16591.0	18006.5	16507.6	13773.3	14650.7	15296.5
65°	16765.9	16644.8	16507.6	16843.9	18733.1	18910.8	19602.4	17040.4	13426.2	13821.8	13267.4
67.5°	18883.8	18784.3	18622.8	19327.9	21782.2	21889.9	21392.0	16994.7	12325.5	11604.3	9306.0
70°	19007.6	19031.9	19796.1	22347.4	25762.4	25789.3	23084.7	16074.3	9981.5	7521.8	4636.9
72.5°	17732.0	17691.7	18687.4	22899.0	28964.9	29056.4	23884.0	13022.5	6168.1	3751.5	2174.5
75°	14403.1	14473.0	15519.9	20035.7	24825.9	24906.6	19470.5	7677.9	2930.7	1835.4	1391.3
77.5°	6200.4	6590.6	8654.8	14115.1	17780.5	17530.2	10035.3	3111.0	1563.6	1307.9	1065.7
80°	1789.6	1943.0	3084.1	6711.7	10654.3	10465.9	3972.1	1165.3	1089.9	982.3	764.3
82.5°	578.6	640.5	1130.3	2672.3	4774.1	4768.7	1507.0	688.9	713.2	667.4	492.5
85°	161.5	185.7	347.2	810.0	1477.4	1447.8	436.0	325.6	379.5	384.8	244.9
87.5°	0.0	0.0	2.7	5.4	5.4	5.4	10.8	48.4	110.3	139.9	99.6
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°	5307.0	5307.0	5307.0	5307.0	5307.0	5307.0	5307.0	5307.0	5307.0	5307.0	5307.0
2.5°	5339.3	5331.2	5441.5	5527.6	5608.4	5662.2	5678.3	5689.1	5710.6	5721.4	5710.6
5°	5376.9	5417.3	5600.3	5734.9	5842.5	5907.1	5909.8	5904.4	5920.5	5907.1	5899.0
7.5°	5457.7	5535.7	5767.1	5909.8	5979.7	5982.4	5917.9	5842.5	5804.8	5772.5	5761.8
10°	5565.3	5681.0	5934.0	6028.2	6006.7	5907.1	5764.5	5646.0	5578.8	5530.3	5519.6
12.5°	5713.3	5842.5	6082.0	6079.3	5944.8	5767.1	5600.3	5457.7	5360.8	5304.3	5285.4
15°	5853.3	6017.4	6189.7	6063.2	5850.6	5635.3	5420.0	5228.9	5099.7	5010.9	4994.8
17.5°	6025.5	6200.4	6267.7	6012.0	5732.2	5455.0	5167.0	4916.7	4741.8	4636.9	4628.8
20°	6224.6	6380.7	6305.4	5923.2	5578.8	5215.5	4825.2	4545.4	4357.0	4254.7	4262.8
22.5°	6456.1	6569.1	6316.1	5802.1	5366.2	4876.4	4440.4	4171.3	4044.8	3991.0	3993.7
25°	6703.7	6776.3	6297.3	5638.0	5040.5	4461.9	4044.8	3921.0	3910.2	3896.8	3902.2
27.5°	6997.0	6980.9	6240.8	5406.5	4601.9	3980.2	3767.6	3799.9	3843.0	3837.6	3843.0
30°	7389.9	7236.5	6168.1	5086.3	4079.8	3576.5	3603.5	3695.0	3751.5	3756.9	3773.0
32.5°	7839.3	7519.1	6052.4	4650.3	3581.9	3350.5	3450.1	3560.4	3627.7	3641.1	3662.7
35°	8374.9	7842.0	5847.9	4106.7	3224.0	3215.9	3307.4	3382.8	3455.4	3460.8	3460.8
37.5°	8991.2	8165.0	5522.3	3506.6	3003.3	3100.2	3186.3	3202.5	3221.3	3205.2	3213.2
40°	9556.3	8477.1	5059.4	2960.3	2823.0	2997.9	3070.6	3016.8	2957.6	2917.2	2925.3
42.5°	10029.9	8689.7	4445.8	2578.1	2640.0	2906.4	2963.0	2852.6	2736.9	2661.6	2672.3
45°	10562.8	8886.2	3724.6	2319.8	2483.9	2841.9	2879.5	2736.9	2588.9	2475.9	2459.7
47.5°	11297.5	9287.2	3084.1	2139.5	2373.6	2806.9	2868.8	2675.0	2481.2	2311.7	2292.9
50°	12204.4	9855.0	2548.5	2021.1	2322.5	2788.0	2866.1	2607.7	2376.3	2177.1	2163.7
52.5°	13194.7	10409.4	2152.9	1929.6	2271.3	2731.5	2852.6	2532.4	2266.0	2050.7	2034.5
55°	13854.1	10627.4	1886.5	1843.4	2187.9	2642.7	2798.8	2459.7	2099.1	1902.6	1878.4
57.5°	14047.8	10347.5	1700.8	1765.4	2080.3	2518.9	2696.5	2306.3	1996.8	1840.8	1821.9
60°	13714.1	9642.4	1585.1	1700.8	1961.9	2360.1	2518.9	2217.5	1916.1	1776.2	1762.7
62.5°	12772.2	8555.2	1496.3	1633.5	1840.8	2193.3	2405.9	2109.9	1827.3	1717.0	1698.1
65°	10877.7	7015.8	1423.6	1563.6	1725.0	2034.5	2282.1	2002.2	1730.4	1647.0	1625.5
67.5°	7607.9	4927.5	1345.6	1480.1	1609.3	1881.1	2152.9	1902.6	1630.8	1568.9	1547.4
70°	3719.2	2613.1	1251.4	1383.3	1485.5	1725.0	2023.7	1781.5	1499.0	1464.0	1434.4
72.5°	1770.8	1461.3	1141.1	1251.4	1316.0	1517.8	1808.5	1606.6	1342.9	1267.5	1216.4
75°	1186.8	1038.8	995.7	1095.3	1111.4	1272.9	1550.1	1385.9	1184.1	1098.0	1054.9
77.5°	898.8	793.9	836.9	925.8	893.5	1046.9	1275.6	1235.2	1068.4	990.3	968.8
80°	632.4	578.6	664.7	718.5	694.3	890.8	1149.1	1057.6	880.0	793.9	777.7
82.5°	398.3	387.5	489.8	497.9	505.9	705.1	944.6	831.6	683.6	562.5	522.1
85°	199.1	220.7	293.3	293.3	290.6	363.3	538.2	468.3	368.7	293.3	285.3
87.5°	67.3	94.2	126.5	102.3	78.0	61.9	70.0	86.1	91.5	88.8	88.8
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)