

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: P641279

Luminaire Tested: GWS-SA5F-750-U-SL3-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641279
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-33)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-750-U-SL3-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (80) 5000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35754.8 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B4 - U0 - G3

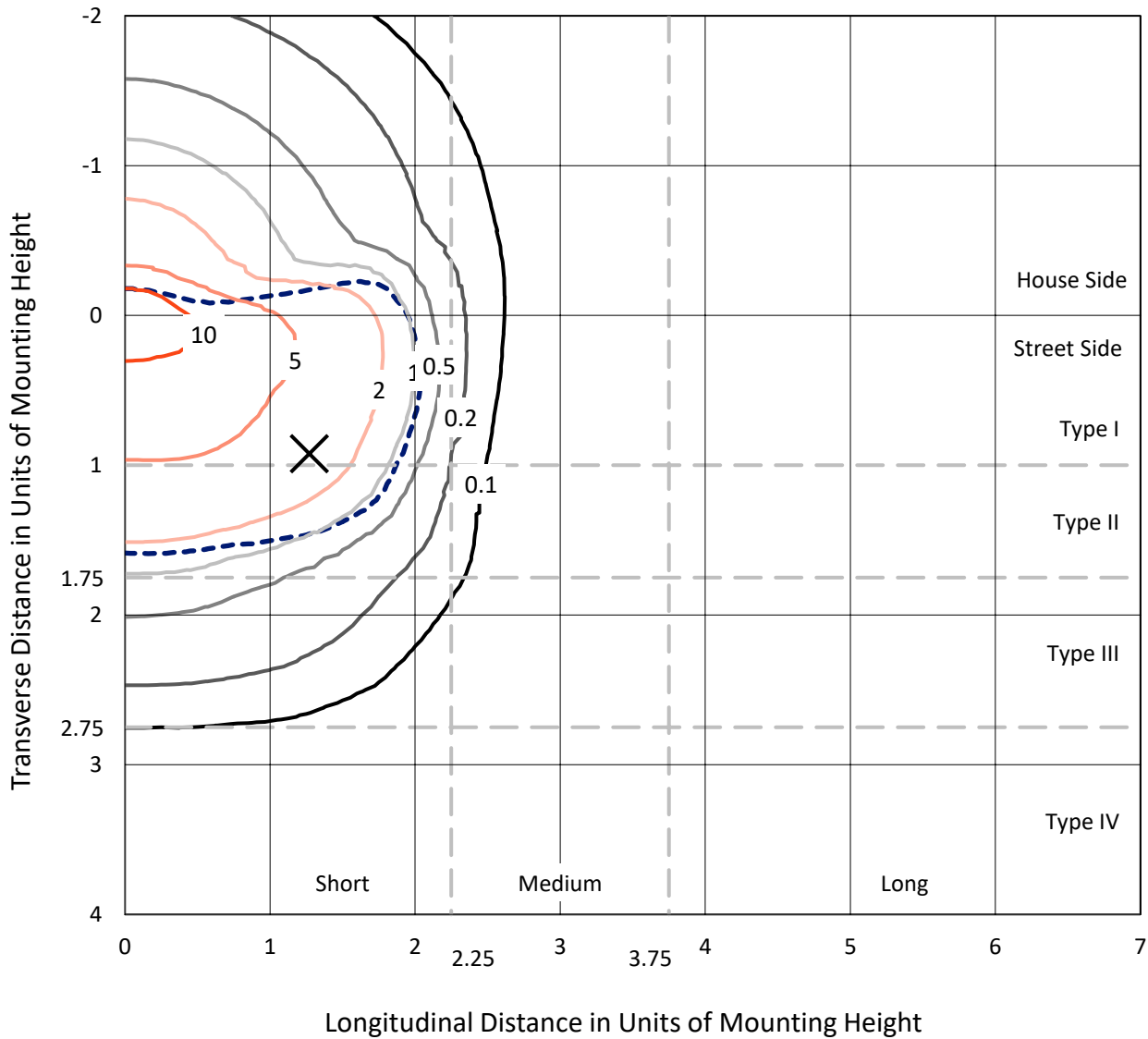
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

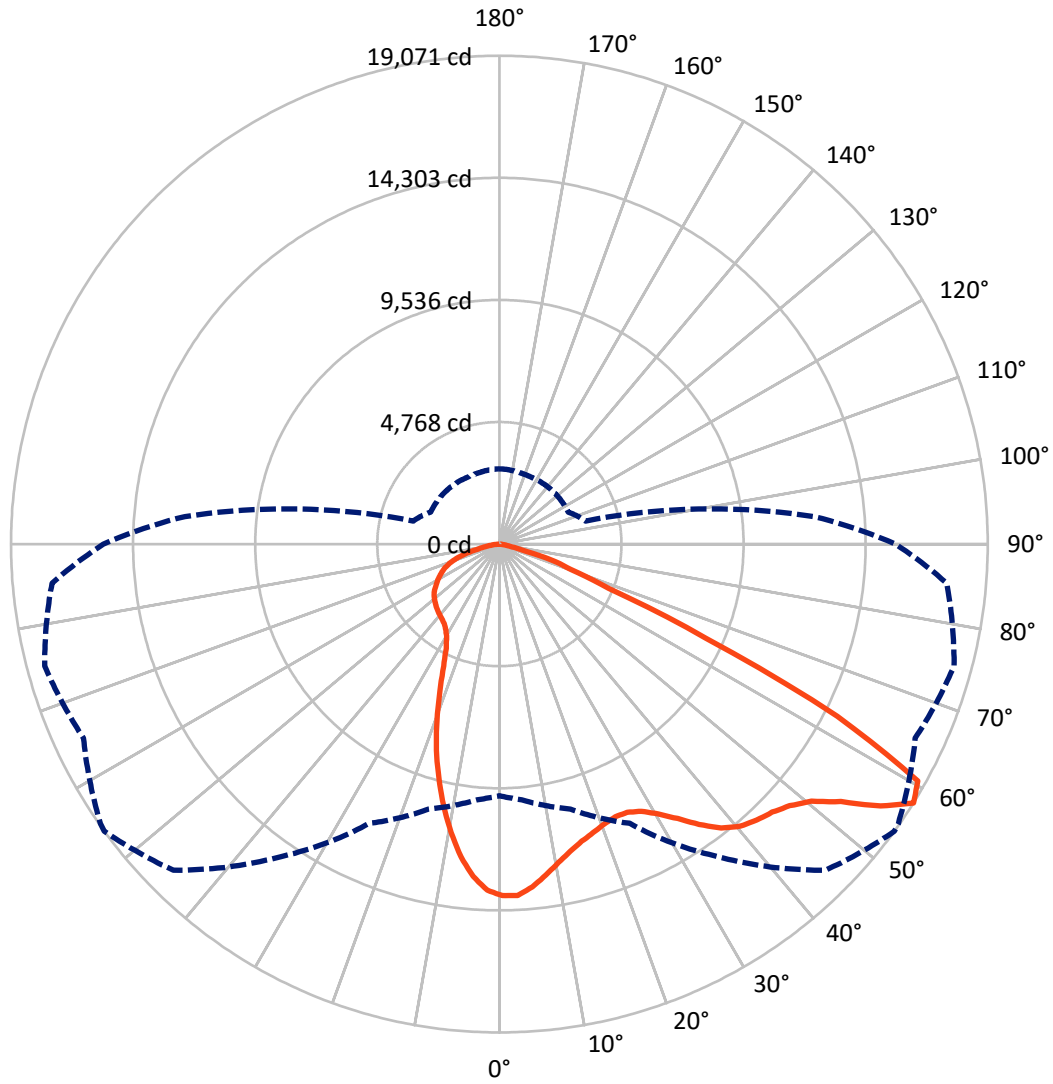
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 15.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10394.3	0.0	10394.3
	% Fixture	29.1	0.0	29.1
Street Side	Lumens	25360.5	0.0	25360.5
	% Fixture	70.9	0.0	70.9
Total	Lumens	35754.8	0.0	35754.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1206.6	3.4
10°-20°	2879.1	8.1
20°-30°	3984.2	11.1
30°-40°	5536.1	15.5
40°-50°	7311.5	20.4
50°-60°	8688.6	24.3
60°-70°	4813.6	13.5
70°-80°	1198.7	3.4
80°-90°	136.3	0.4
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°	35754.8	100.0
0°-180°	35754.8	100.0

Coefficient of Utilization



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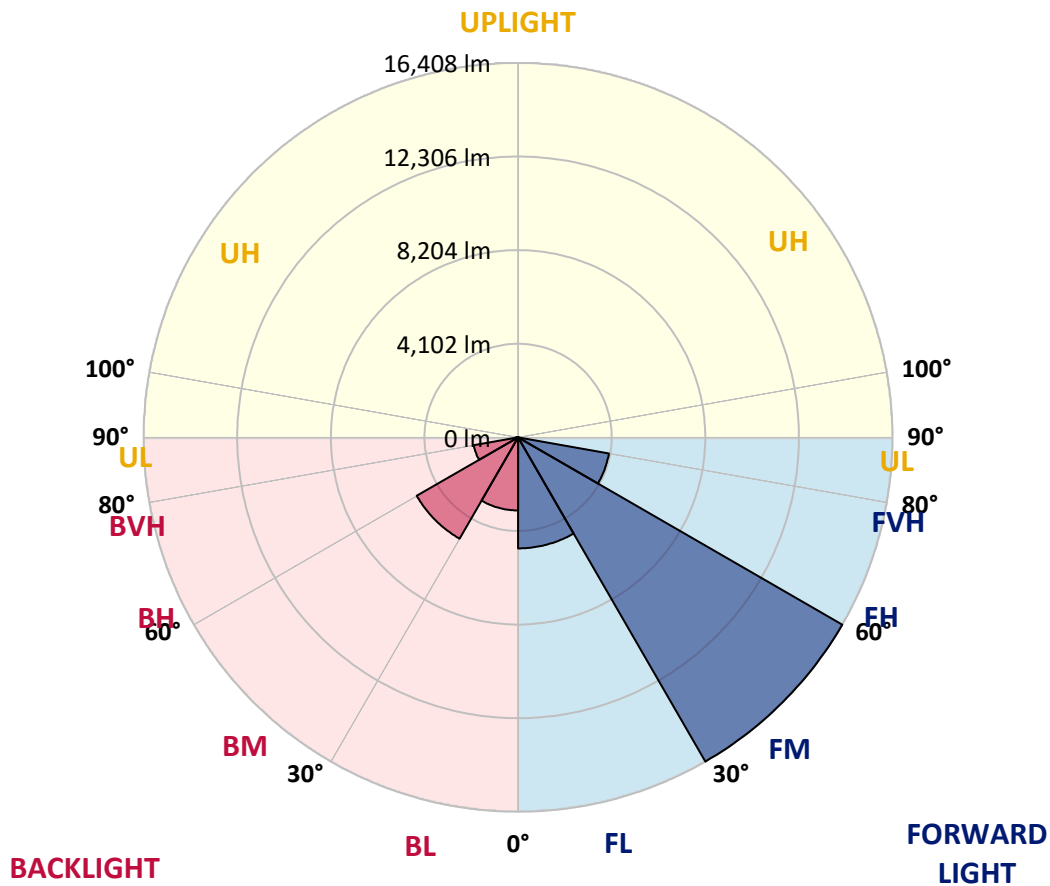
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4866.8	13.6			
FM (30°-60°)	16408.5	45.9			
FH (60°-80°)	4042.6	11.3			G2/5000
FVH (80°-90°)	42.6	0.1			G1/100
BL (0°-30°)	3203.1	9.0	B4/5000		
BM (30°-60°)	5127.8	14.3	B4/8500		
BH (60°-80°)	1969.8	5.5	B3/2500		G3/2500
BVH (80°-90°)	93.7	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	13727.1	13727.1	13727.1	13727.1	13727.1	13727.1	13727.1	13727.1	13727.1	13727.1	13727.1
2.5°	13470.0	13497.5	13515.9	13580.2	13635.3	13684.2	13736.3	13736.3	13733.2	13724.0	13705.7
5°	12937.4	12968.0	13010.9	13099.6	13219.0	13304.7	13445.5	13457.7	13519.0	13543.4	13531.2
7.5°	12319.2	12328.4	12383.4	12499.8	12689.5	12842.5	13044.6	13069.0	13215.9	13301.6	13286.3
10°	11642.8	11612.2	11710.1	11881.5	12129.4	12386.5	12646.7	12668.1	12903.8	13066.0	13053.7
12.5°	11024.5	11027.6	11125.5	11333.6	11642.8	11961.1	12310.0	12359.0	12649.7	12857.9	12836.4
15°	10507.3	10519.5	10638.9	10874.5	11226.5	11606.0	12040.7	12086.6	12453.8	12729.3	12668.1
17.5°	10094.1	10106.3	10210.4	10479.7	10856.2	11315.3	11844.8	11890.7	12346.7	12674.2	12548.7
20°	9809.4	9803.3	9904.3	10161.4	10550.1	11049.0	11673.4	11740.7	12313.1	12695.6	12469.1
22.5°	9693.1	9690.1	9763.5	9974.7	10338.9	10843.9	11569.3	11661.1	12349.8	12790.5	12420.2
25°	9751.3	9739.0	9803.3	9959.4	10250.2	10764.4	11599.9	11697.9	12505.9	12986.4	12429.4
27.5°	9931.9	9916.6	9971.6	10112.4	10332.8	10847.0	11814.2	11927.4	12836.4	13344.5	12551.8
30°	10207.3	10198.1	10253.2	10387.9	10580.7	11122.5	12224.3	12352.8	13347.6	13901.5	12818.1
32.5°	10528.7	10513.4	10611.3	10767.4	10990.8	11624.4	12775.2	12943.5	13953.6	14617.7	13264.9
35°	10889.8	10877.6	11012.3	11238.8	11560.1	12322.2	13442.4	13626.1	14571.8	15428.8	13858.7
37.5°	11241.8	11241.8	11502.0	11838.6	12242.7	13081.3	14069.9	14186.2	15000.3	16148.1	14495.3
40°	11554.0	11572.4	11964.1	12469.1	12983.3	13766.9	14483.1	14581.0	15190.1	16643.9	15049.3
42.5°	11899.9	11915.2	12371.2	13032.3	13644.4	14320.8	14734.0	14783.0	15226.8	16891.8	15441.1
45°	12175.3	12196.7	12763.0	13470.0	14219.8	14737.1	14933.0	14975.8	15278.8	17026.5	15725.7
47.5°	12319.2	12349.8	12998.6	13822.0	14608.6	15110.5	15260.5	15278.8	15493.1	17262.1	16068.5
50°	12294.7	12355.9	13087.4	13996.4	14896.3	15487.0	15786.9	15817.5	15930.8	17608.0	16469.4
52.5°	12512.0	12539.5	13277.2	14204.5	15306.4	16181.7	16702.0	16744.9	16692.9	17868.2	16708.2
55°	12150.8	12282.4	13041.5	14173.9	15930.8	17256.0	18057.9	18036.5	17384.6	18158.9	17106.1
57.5°	9827.8	10020.6	10715.4	12031.5	14902.4	18008.9	19071.0	19019.0	17920.2	18382.4	17537.6
60°	6803.9	6834.5	7461.9	8395.4	11502.0	15909.3	18774.1	18887.4	18018.1	18100.8	16738.8
62.5°	5441.9	5432.7	5490.8	5515.3	7315.0	11183.7	14819.7	15232.9	14969.7	14103.5	11863.1
65°	4646.1	4679.8	4851.2	4762.4	4774.6	6298.8	8854.5	8912.7	8729.0	8416.8	6274.4
67.5°	3636.1	3694.2	3997.2	4343.1	4232.9	4055.4	4594.1	4566.5	3599.3	2785.2	2301.6
70°	2277.1	2313.9	2638.3	3409.6	3685.0	3330.0	2953.5	2941.3	1928.2	1585.4	1738.5
72.5°	1328.3	1334.4	1426.3	1900.7	2445.5	2277.1	2173.1	2093.5	1239.6	1264.1	1386.5
75°	731.5	731.5	728.4	820.3	964.1	853.9	826.4	805.0	829.4	939.6	1031.4
77.5°	153.0	156.1	165.3	217.3	281.6	342.8	431.6	434.6	541.7	627.4	700.9
80°	70.4	73.5	91.8	116.3	150.0	198.9	263.2	266.3	327.5	394.8	443.8
82.5°	36.7	39.8	49.0	61.2	79.6	104.1	146.9	146.9	195.9	232.6	263.2
85°	12.2	12.2	18.4	24.5	33.7	42.8	58.2	58.2	85.7	113.2	131.6
87.5°	0.0	0.0	0.0	0.0	3.1	6.1	12.2	12.2	15.3	18.4	30.6
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°	13727.1	13727.1	13727.1	13727.1	13727.1	13727.1	13727.1	13727.1	13727.1	13727.1	13727.1
2.5°	13665.9	13571.0	13574.0	13592.4	13534.3	13445.5	13387.3	13313.9	13268.0	13258.8	13292.5
5°	13470.0	13359.8	13283.3	13203.7	13038.4	12842.5	12689.5	12564.0	12481.4	12450.8	12414.1
7.5°	13200.6	13056.8	12864.0	12640.5	12340.6	11991.7	11746.8	11517.3	11358.1	11312.2	11290.8
10°	12931.3	12723.2	12380.4	11964.1	11465.2	10993.9	10550.1	10210.4	9941.0	9788.0	9837.0
12.5°	12652.8	12395.7	11860.1	11220.4	10525.6	9815.6	9234.0	8670.9	8236.2	8018.9	7954.7
15°	12407.9	12059.0	11312.2	10446.0	9521.7	8628.0	7786.3	6941.6	6390.7	6090.7	6008.1
17.5°	12199.8	11746.8	10733.7	9656.4	8551.5	7278.3	6243.8	5460.2	5083.8	4918.5	4906.2
20°	11994.7	11440.8	10161.4	8805.5	7431.3	6005.0	5080.7	4713.4	4578.8	4520.6	4517.5
22.5°	11811.1	11119.4	9558.5	7954.7	6317.2	5047.0	4539.0	4379.8	4343.1	4343.1	4337.0
25°	11655.0	10798.0	8940.2	7051.8	5310.3	4493.1	4257.4	4190.0	4205.4	4232.9	4236.0
27.5°	11590.7	10547.0	8343.4	6124.4	4615.5	4171.7	4064.6	4055.4	4098.2	4141.1	4147.2
30°	11658.1	10375.7	7731.2	5236.8	4199.2	3975.8	3926.8	3945.2	3997.2	4040.1	4040.1
32.5°	11866.2	10290.0	7106.9	4587.9	3957.4	3838.1	3822.8	3841.1	3880.9	3905.4	3908.5
35°	12218.2	10323.6	6461.1	4150.3	3801.3	3737.1	3734.0	3746.3	3761.6	3776.9	3779.9
37.5°	12662.0	10473.6	5769.4	3896.2	3700.3	3663.6	3657.5	3654.4	3657.5	3657.5	3660.6
40°	13096.6	10700.1	5151.1	3746.3	3629.9	3599.3	3584.0	3562.6	3559.6	3553.4	3550.4
42.5°	13418.0	10874.5	4658.3	3639.1	3565.7	3528.9	3510.6	3476.9	3473.9	3470.8	3467.7
45°	13659.7	11021.5	4248.2	3535.1	3498.3	3464.7	3424.9	3394.3	3400.4	3406.5	3406.5
47.5°	13932.1	11150.0	3948.3	3437.1	3415.7	3382.0	3333.1	3311.6	3333.1	3354.5	3354.5
50°	14262.7	11330.6	3703.4	3339.2	3330.0	3290.2	3247.4	3238.2	3262.7	3293.3	3293.3
52.5°	14504.5	11486.7	3528.9	3241.2	3241.2	3189.2	3152.5	3149.4	3177.0	3207.6	3210.6
55°	14957.5	11850.9	3467.7	3128.0	3115.8	3076.0	3048.4	3027.0	3060.7	3088.2	3088.2
57.5°	15468.6	12334.5	3483.0	2965.8	2950.5	2938.2	2916.8	2892.3	2901.5	2932.1	2935.2
60°	14385.1	11397.9	3314.7	2803.6	2794.4	2788.3	2760.7	2717.9	2730.1	2754.6	2757.7
62.5°	10048.2	7575.1	2681.1	2601.6	2632.2	2629.1	2592.4	2543.4	2546.5	2580.1	2580.1
65°	5215.4	4098.2	2353.7	2417.9	2463.8	2445.5	2384.3	2341.4	2335.3	2378.1	2369.0
67.5°	2249.6	2237.3	2142.5	2225.1	2274.1	2234.3	2170.0	2099.6	2105.7	2121.0	2108.8
70°	1811.9	1867.0	1906.8	1995.6	2035.3	1961.9	1891.5	1851.7	1818.0	1815.0	1793.5
72.5°	1447.7	1524.2	1613.0	1704.8	1717.0	1643.6	1554.8	1518.1	1466.1	1463.0	1441.6
75°	1089.6	1153.9	1224.3	1297.7	1297.7	1227.3	1169.2	1150.8	1089.6	1071.2	1052.9
77.5°	743.7	783.5	838.6	857.0	875.4	847.8	789.7	759.0	688.6	670.3	645.8
80°	468.3	495.8	529.5	541.7	560.1	526.4	480.5	446.9	397.9	382.6	370.3
82.5°	281.6	299.9	321.4	327.5	342.8	318.3	275.5	251.0	223.4	211.2	202.0
85°	143.9	153.0	165.3	168.3	165.3	140.8	125.5	113.2	94.9	91.8	85.7
87.5°	36.7	42.8	45.9	42.8	39.8	30.6	21.4	15.3	6.1	6.1	3.1
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)