

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: P643637

Luminaire Tested: GWS-SA6F-735-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643637
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-51)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6F-735-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS W/ FACTORY INSTALLED GLARE SHIELD, WH
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 43272.8 lumens
Efficiency: N/A
Efficacy: 116.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

Input Watts (W): 372.6
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

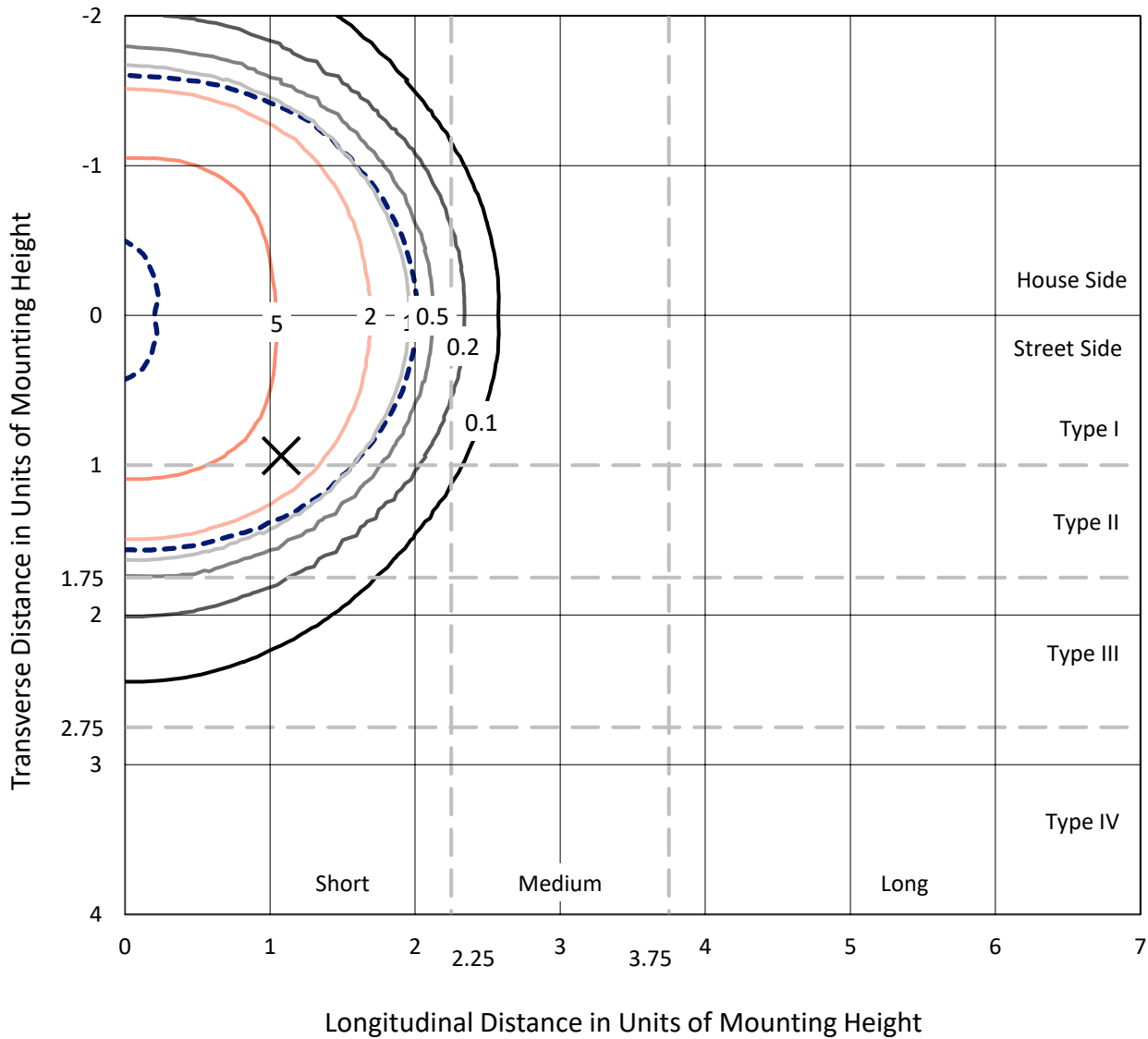


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Iso-Footcandle Lines of Horizontal Illumination

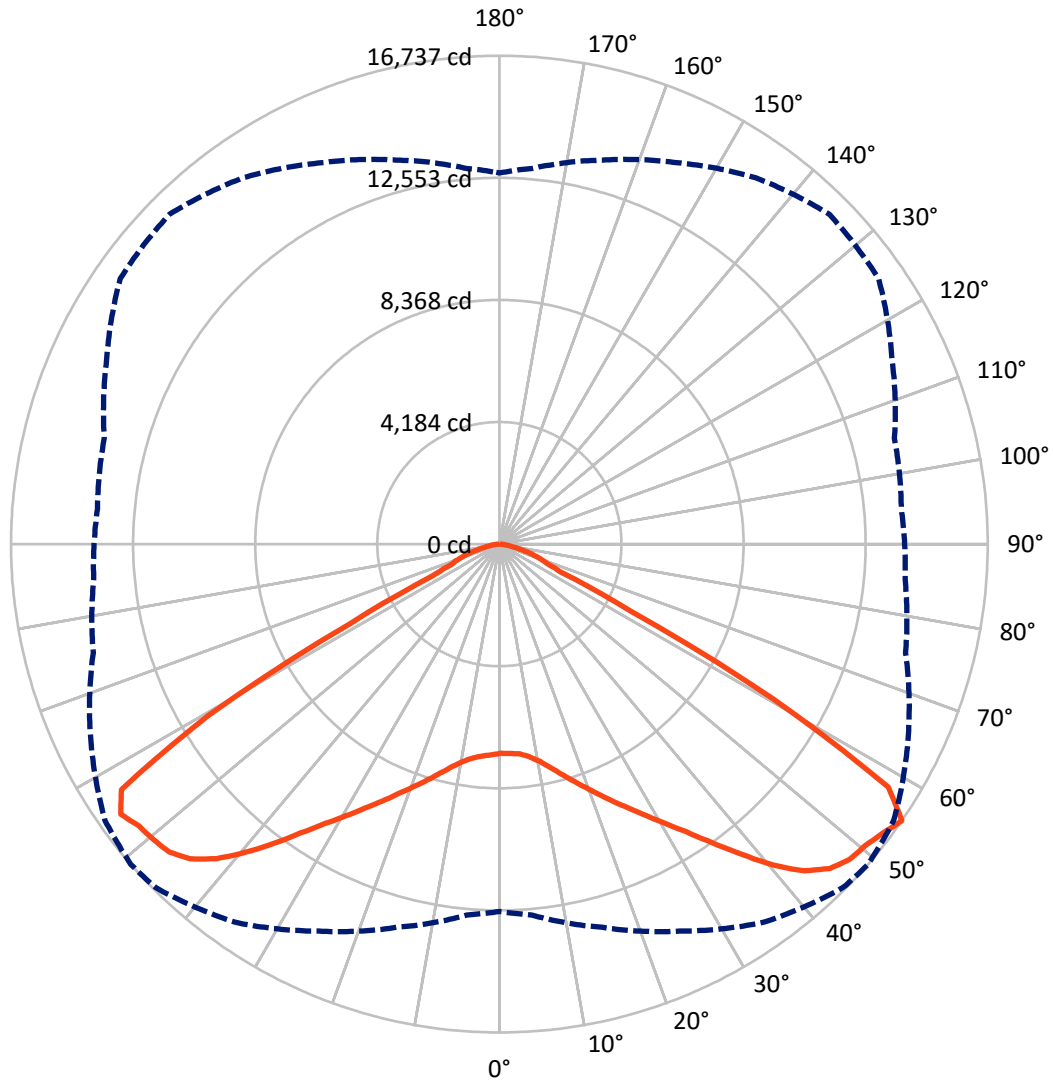
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 49-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	21424.1	0.0	21424.1
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	21848.7	0.0	21848.7
	% Fixture	50.5	0.0	50.5
Total	Lumens	43272.8	0.0	43272.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	699.3	1.6
10°-20°	2306.5	5.3
20°-30°	4393.3	10.2
30°-40°	7447.5	17.2
40°-50°	11208.0	25.9
50°-60°	12268.2	28.4
60°-70°	3879.3	9.0
70°-80°	931.0	2.2
80°-90°	139.7	0.3
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°	43272.8	100.0
0°-180°	43272.8	100.0

Coefficient of Utilization



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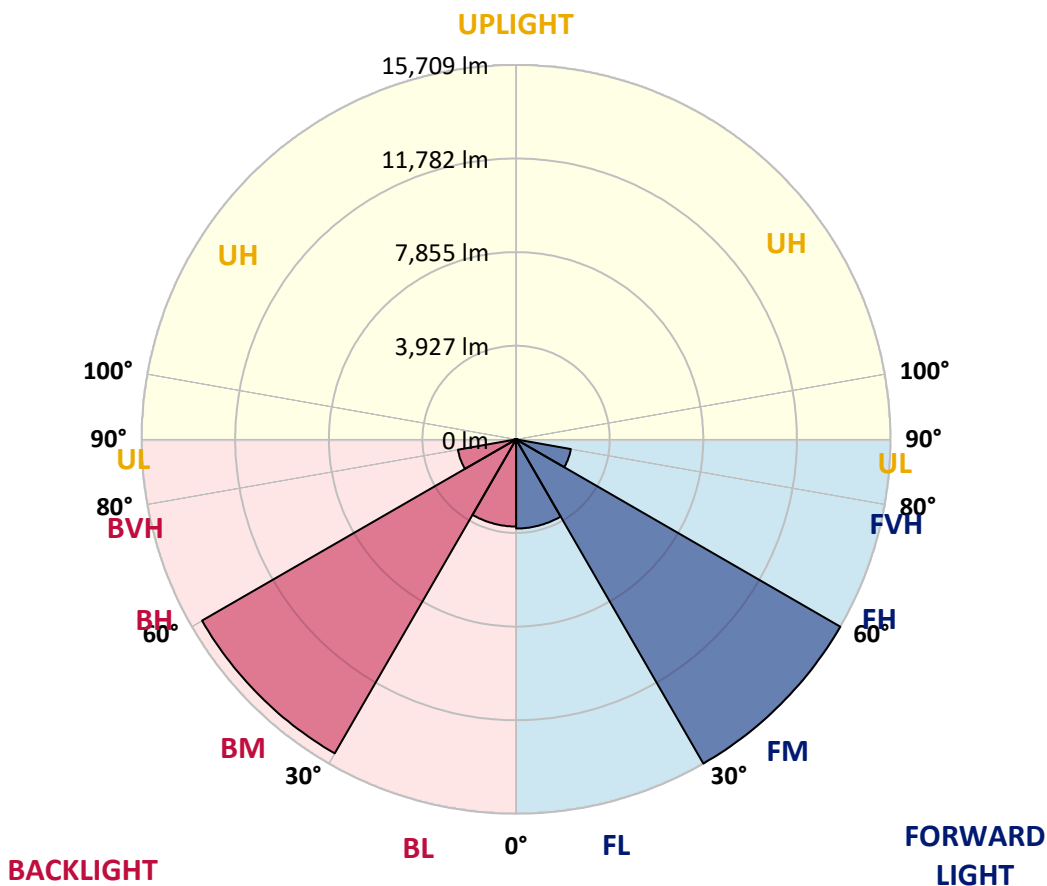
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3741.3	8.6			
FM (30°-60°)	15709.2	36.3			
FH (60°-80°)	2333.4	5.4			G2/5000
FVH (80°-90°)	64.7	0.1			G1/100
BL (0°-30°)	3657.7	8.5	B4/5000		
BM (30°-60°)	15214.5	35.2	B5		
BH (60°-80°)	2476.9	5.7	B3/2500		G2/5000
BVH (80°-90°)	75.0	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	7168.4	7168.4	7168.4	7168.4	7168.4	7168.4	7168.4	7168.4	7168.4	7168.4	7168.4
2.5°	7062.8	7069.9	7083.9	7108.6	7133.2	7168.4	7182.5	7200.1	7196.6	7217.7	7217.7
5°	7027.6	7038.2	7059.3	7094.5	7136.7	7203.6	7221.2	7263.4	7305.6	7358.4	7376.0
7.5°	7069.9	7083.9	7108.6	7164.9	7228.2	7316.2	7351.4	7421.8	7502.7	7597.7	7636.4
10°	7150.8	7168.4	7210.6	7302.1	7404.2	7537.9	7569.6	7657.6	7787.8	7918.0	7995.4
12.5°	7242.3	7270.5	7347.9	7492.2	7643.5	7819.4	7868.7	7977.8	8118.6	8287.5	8393.0
15°	7347.9	7372.5	7492.2	7696.3	7932.0	8164.3	8220.6	8326.2	8484.5	8649.9	8797.7
17.5°	7569.6	7611.8	7752.6	7988.4	8262.8	8537.3	8600.7	8720.3	8847.0	8977.2	9118.0
20°	7872.2	7907.4	8086.9	8379.0	8702.7	8952.6	9015.9	9121.5	9181.3	9248.2	9367.8
22.5°	8174.9	8224.1	8428.2	8773.1	9153.2	9424.1	9473.4	9571.9	9529.7	9508.6	9586.0
25°	8551.4	8618.3	8818.9	9195.4	9582.5	9916.8	9955.5	10040.0	9969.6	9860.5	9857.0
27.5°	9019.4	9079.3	9286.9	9674.0	10057.6	10406.0	10479.9	10592.5	10437.6	10303.9	10208.9
30°	9575.5	9614.2	9842.9	10254.7	10648.8	10979.6	11074.6	11187.2	11071.1	10849.4	10754.4
32.5°	10223.0	10275.8	10539.7	10972.5	11324.5	11655.3	11750.3	11891.0	11764.3	11514.5	11394.8
35°	11000.7	11053.5	11331.5	11803.1	12162.0	12503.4	12570.2	12686.3	12528.0	12239.4	12144.4
37.5°	11845.3	11912.1	12264.1	12711.0	13087.5	13485.2	13488.7	13523.9	13298.7	12939.7	12834.1
40°	12795.4	12883.4	13235.3	13699.8	14153.8	14477.6	14474.0	14375.5	13995.5	13439.4	13277.6
42.5°	13735.0	13805.4	14160.8	14639.4	15093.4	15399.6	15308.1	15068.8	14519.8	13763.2	13548.5
45°	14414.2	14467.0	14840.0	15378.5	15839.5	16029.5	15864.1	15575.5	14833.0	13967.3	13650.6
47.5°	14734.5	14804.8	15181.4	15716.3	16237.1	16346.2	16149.1	15878.2	15016.0	14157.3	13731.5
50°	14562.0	14653.5	15079.3	15575.5	16163.2	16388.4	16247.7	15976.7	15209.5	14343.8	13875.8
52.5°	14115.1	14203.1	14741.5	15343.3	16008.4	16455.3	16451.8	16230.1	15431.2	14396.6	13882.8
55°	12587.8	12760.2	13597.8	14635.9	15818.3	16652.4	16736.8	16501.0	15466.4	14410.7	13956.7
57.5°	8192.5	8495.1	9290.4	10641.8	13013.6	15146.2	15716.3	15772.6	15213.1	14350.9	13970.8
60°	3420.6	3663.4	4293.3	5190.7	7150.8	9688.1	10793.1	11901.6	13238.8	13724.5	13840.6
62.5°	2125.5	2146.6	2210.0	2414.1	3068.7	4307.4	5018.2	6056.4	8044.7	9737.3	10518.6
65°	1917.9	1928.5	1942.5	1928.5	1960.1	2111.5	2301.5	2664.0	3473.3	4314.4	5313.8
67.5°	1689.2	1703.2	1713.8	1703.2	1713.8	1720.8	1742.0	1773.6	1921.4	2041.1	2132.6
70°	1365.4	1386.5	1404.1	1397.1	1439.3	1439.3	1460.4	1485.1	1559.0	1646.9	1710.3
72.5°	1041.7	1024.1	1045.2	1052.2	1090.9	1112.0	1143.7	1171.9	1256.3	1309.1	1390.0
75°	675.7	658.1	689.7	707.3	760.1	788.3	816.4	844.6	904.4	939.6	1017.0
77.5°	366.0	362.5	394.1	418.8	475.1	510.3	531.4	552.5	601.8	612.3	661.6
80°	211.1	211.1	232.3	249.9	285.0	323.8	344.9	362.5	397.7	408.2	429.3
82.5°	116.1	116.1	126.7	137.2	165.4	186.5	204.1	218.2	249.9	260.4	271.0
85°	56.3	52.8	59.8	66.9	77.4	88.0	98.5	105.6	130.2	137.2	151.3
87.5°	7.0	7.0	7.0	10.6	14.1	21.1	24.6	24.6	38.7	45.7	52.8
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°	7168.4	7168.4	7168.4	7168.4	7168.4	7168.4	7168.4	7168.4	7168.4	7168.4	7168.4
2.5°	7238.8	7193.0	7221.2	7231.7	7231.7	7221.2	7175.4	7161.4	7140.2	7108.6	7108.6
5°	7400.7	7365.5	7372.5	7354.9	7312.7	7259.9	7175.4	7133.2	7098.0	7059.3	7055.8
7.5°	7678.7	7632.9	7625.9	7559.0	7446.4	7333.8	7207.1	7129.7	7076.9	7027.6	7024.1
10°	8041.1	7998.9	7946.1	7812.4	7647.0	7481.6	7309.2	7203.6	7126.2	7055.8	7052.3
12.5°	8445.8	8396.6	8298.0	8101.0	7893.3	7731.5	7534.4	7372.5	7256.4	7161.4	7143.8
15°	8885.7	8815.3	8646.4	8414.2	8210.1	8037.6	7826.5	7594.2	7418.3	7266.9	7249.3
17.5°	9223.6	9132.1	8949.1	8730.9	8562.0	8389.5	8115.0	7823.0	7569.6	7379.5	7351.4
20°	9455.8	9381.9	9174.3	9012.4	8913.9	8762.6	8442.3	8111.5	7826.5	7587.2	7573.1
22.5°	9670.5	9582.5	9378.4	9283.4	9283.4	9181.3	8875.2	8484.5	8150.2	7872.2	7837.0
25°	9913.3	9818.3	9663.4	9652.9	9702.2	9656.4	9286.9	8868.1	8477.5	8164.3	8108.0
27.5°	10251.1	10145.6	10054.1	10117.4	10187.8	10138.5	9726.8	9241.2	8829.4	8512.7	8463.4
30°	10789.6	10659.3	10574.9	10652.3	10789.6	10645.3	10198.3	9684.6	9269.3	8920.9	8896.3
32.5°	11416.0	11268.2	11180.2	11303.3	11426.5	11201.3	10757.9	10265.2	9828.8	9462.9	9420.6
35°	12169.0	11982.5	11852.3	12017.7	12144.4	11922.7	11482.8	11014.8	10529.1	10149.1	10092.8
37.5°	12837.7	12612.4	12524.5	12756.7	12925.6	12781.4	12302.8	11862.9	11331.5	10916.2	10891.6
40°	13323.3	13101.6	13038.3	13421.8	13717.4	13682.3	13252.9	12749.7	12250.0	11771.4	11725.6
42.5°	13534.4	13379.6	13393.7	13911.0	14368.5	14593.7	14210.1	13671.7	13189.6	12693.4	12661.7
45°	13580.2	13485.2	13597.8	14245.3	14847.1	15308.1	14980.8	14530.4	13984.9	13506.3	13492.2
47.5°	13629.5	13576.7	13749.1	14435.3	15149.7	15684.6	15501.6	15037.1	14484.6	14016.6	13981.4
50°	13745.6	13724.5	13918.0	14569.1	15294.0	15786.7	15579.0	15118.0	14551.5	14090.5	14006.0
52.5°	13780.8	13745.6	14023.6	14776.7	15533.3	15783.2	15336.2	14734.5	14164.4	13650.6	13562.6
55°	13889.9	13826.5	14016.6	14854.1	15864.1	15987.3	15322.2	14421.3	13625.9	12925.6	12718.0
57.5°	13918.0	13847.6	13970.8	14727.4	15505.1	15396.1	13467.6	11637.7	10138.5	9360.8	9448.8
60°	13766.7	13787.8	13576.7	13492.2	12436.5	10979.6	8245.2	6591.3	5176.6	4578.3	4708.6
62.5°	10479.9	10567.9	9846.4	8562.0	6584.2	5218.8	3452.2	2681.6	2269.8	2164.2	2181.8
65°	5289.2	5408.9	4659.3	3853.4	2864.5	2315.6	2002.4	1939.0	1917.9	1893.3	1893.3
67.5°	2093.9	2129.1	2100.9	1967.2	1829.9	1780.7	1766.6	1759.5	1734.9	1720.8	1724.4
70°	1682.1	1710.3	1668.1	1583.6	1527.3	1523.8	1516.7	1502.7	1485.1	1485.1	1495.6
72.5°	1372.4	1400.6	1340.8	1288.0	1245.8	1214.1	1196.5	1185.9	1161.3	1161.3	1171.9
75°	1010.0	1027.6	978.3	971.3	925.5	893.9	865.7	851.6	819.9	805.9	816.4
77.5°	672.1	668.6	644.0	644.0	626.4	587.7	556.0	524.3	482.1	454.0	461.0
80°	436.4	436.4	425.8	425.8	408.2	376.5	337.8	306.2	281.5	260.4	260.4
82.5°	278.0	274.5	271.0	267.5	260.4	228.7	200.6	179.5	161.9	147.8	151.3
85°	154.8	154.8	147.8	147.8	133.7	116.1	102.1	88.0	77.4	73.9	73.9
87.5°	52.8	52.8	49.3	49.3	42.2	31.7	24.6	21.1	17.6	14.1	17.6
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)