

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: P642812

Luminaire Tested: GWS-SA6D-760-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642812
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-SA6D-760-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) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31859.1 lumens
Efficiency: N/A
Efficacy: 129.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

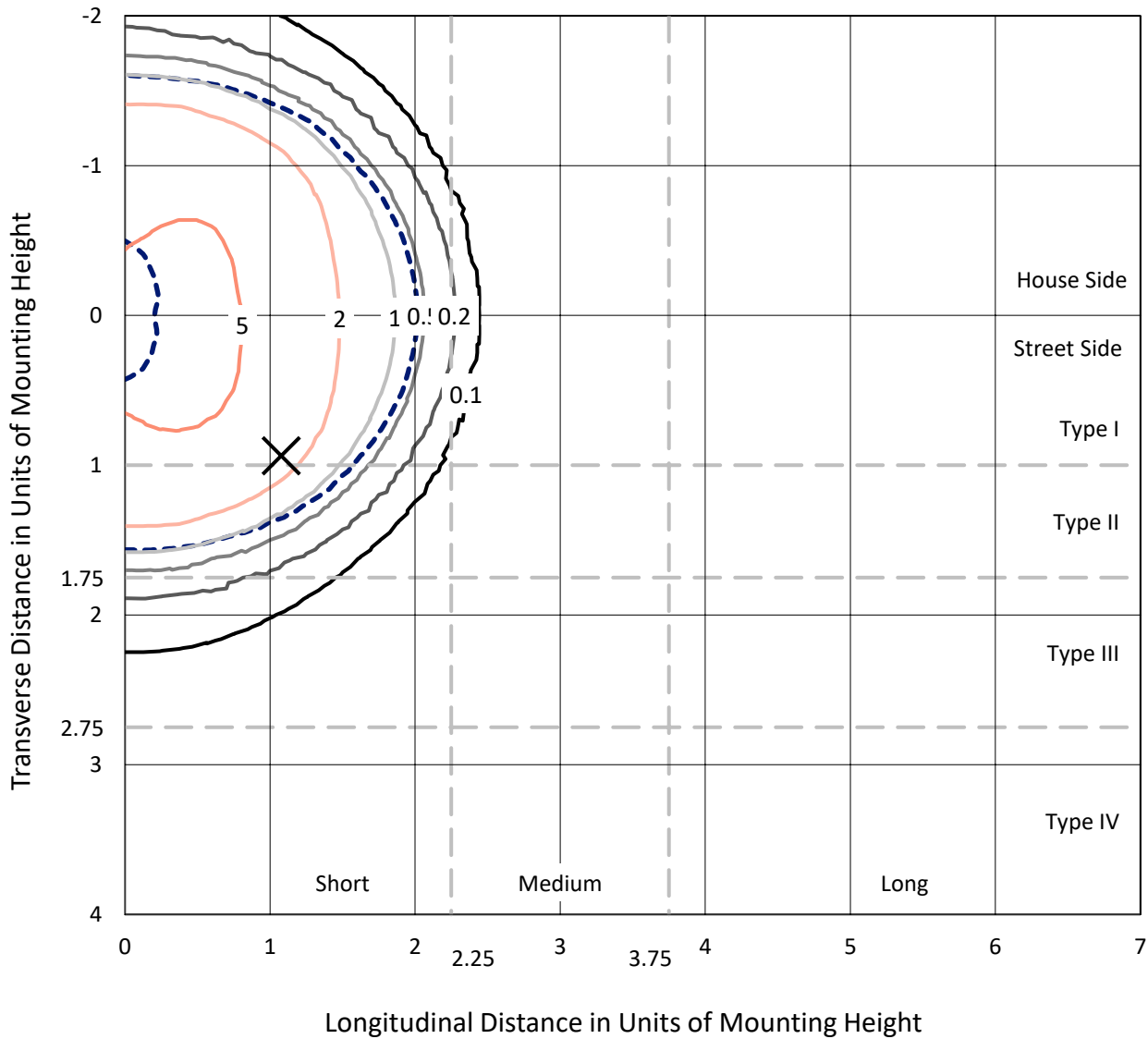
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

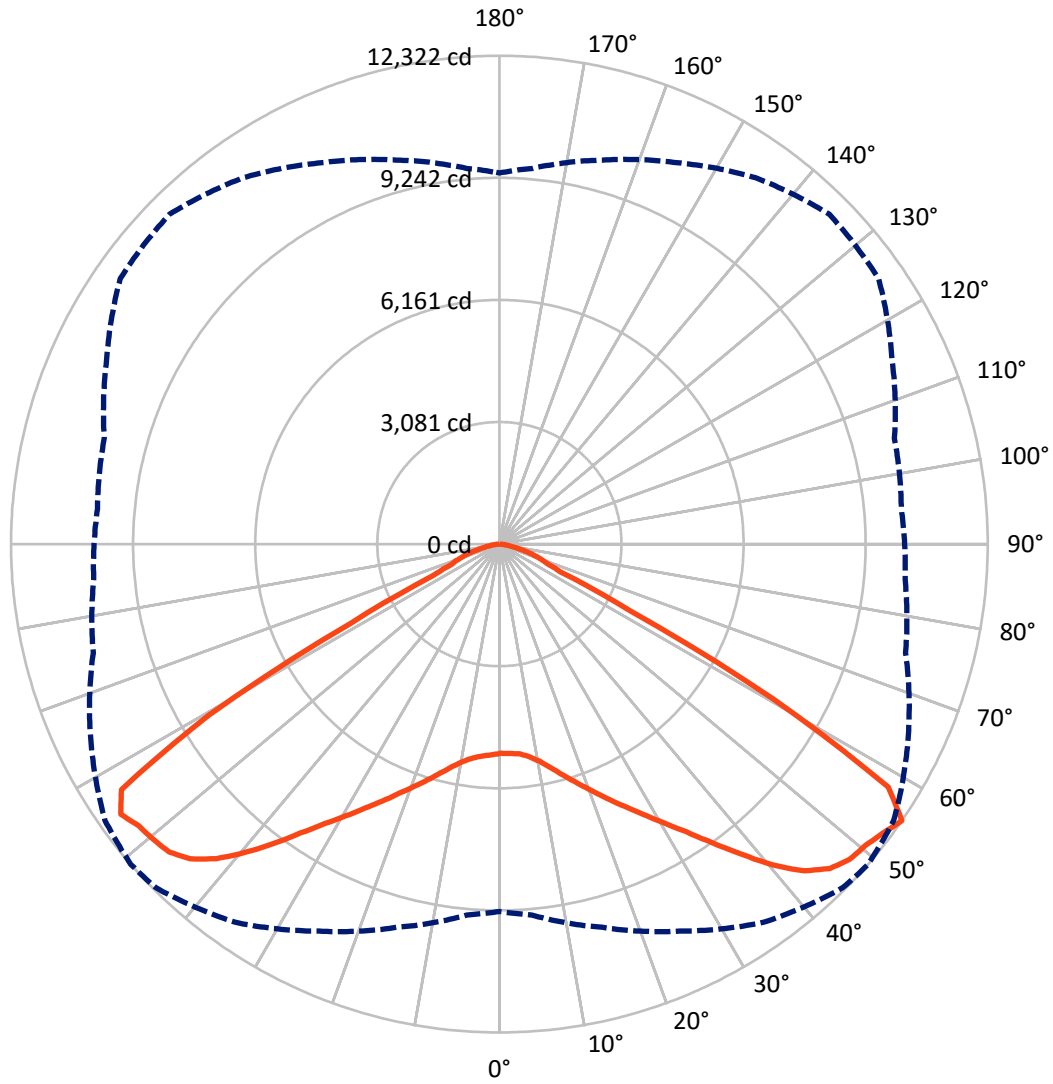
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 6.5 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	15773.3	0.0	15773.3
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	16085.8	0.0	16085.8
	% Fixture	50.5	0.0	50.5
Total	Lumens	31859.1	0.0	31859.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	514.8	1.6
10°-20°	1698.2	5.3
20°-30°	3234.5	10.2
30°-40°	5483.1	17.2
40°-50°	8251.7	25.9
50°-60°	9032.4	28.4
60°-70°	2856.1	9.0
70°-80°	685.5	2.2
80°-90°	102.9	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°	31859.1	100.0
0°-180°	31859.1	100.0

Coefficient of Utilization



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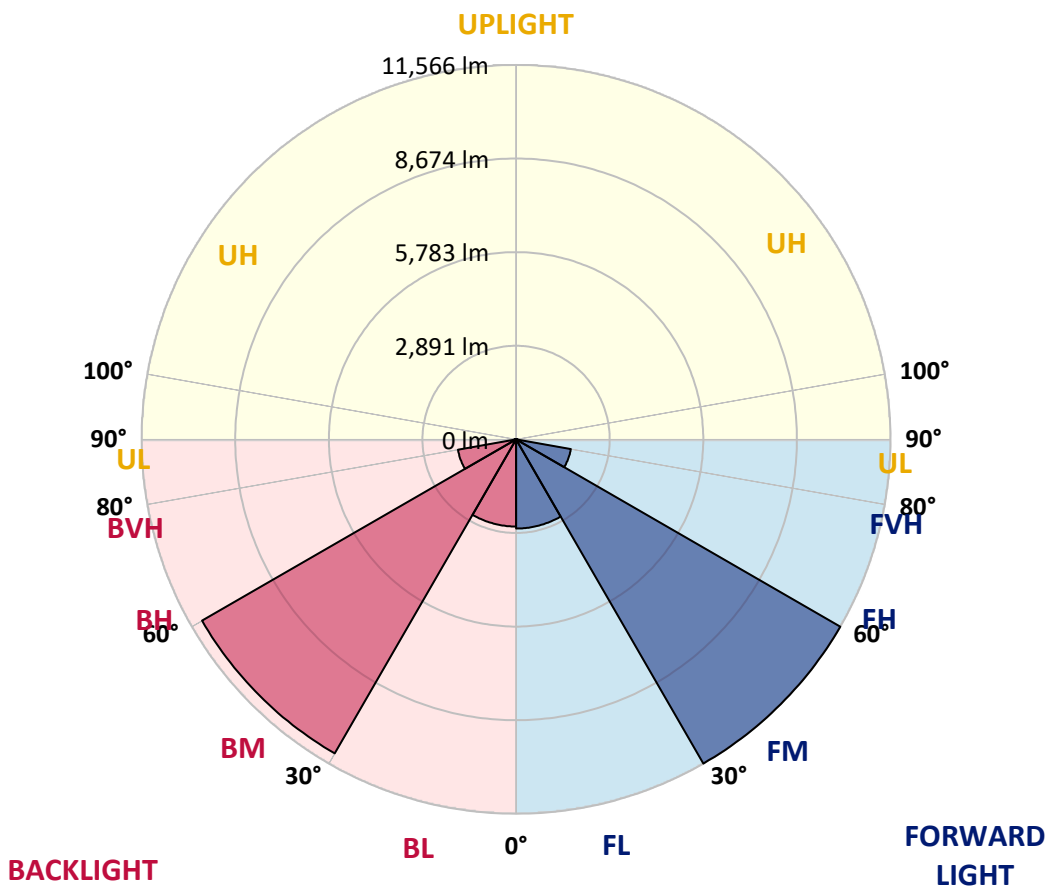
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2754.5	8.6			
FM (30°-60°)	11565.7	36.3			
FH (60°-80°)	1718.0	5.4			G1/1800
FVH (80°-90°)	47.6	0.1			G1/100
BL (0°-30°)	2693.0	8.5	B4/5000		
BM (30°-60°)	11201.5	35.2	B5		
BH (60°-80°)	1823.6	5.7	B3/2500		G2/5000
BVH (80°-90°)	55.2	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°	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7
2.5°	5199.9	5205.1	5215.5	5233.6	5251.7	5277.7	5288.0	5301.0	5298.4	5313.9	5313.9
5°	5174.0	5181.8	5197.3	5223.2	5254.3	5303.6	5316.5	5347.6	5378.7	5417.6	5430.5
7.5°	5205.1	5215.5	5233.6	5275.1	5321.7	5386.5	5412.4	5464.2	5523.8	5593.7	5622.2
10°	5264.7	5277.7	5308.7	5376.1	5451.2	5549.7	5573.0	5637.8	5733.7	5829.5	5886.5
12.5°	5332.1	5352.8	5409.8	5516.0	5627.4	5757.0	5793.2	5873.6	5977.2	6101.6	6179.3
15°	5409.8	5427.9	5516.0	5666.3	5839.9	6010.9	6052.3	6130.1	6246.6	6368.4	6477.2
17.5°	5573.0	5604.1	5707.7	5881.3	6083.4	6285.5	6332.1	6420.2	6513.5	6609.4	6713.0
20°	5795.8	5821.7	5953.9	6168.9	6407.3	6591.2	6637.9	6715.6	6759.6	6808.9	6897.0
22.5°	6018.6	6054.9	6205.2	6459.1	6738.9	6938.4	6974.7	7047.2	7016.1	7000.6	7057.6
25°	6295.9	6345.1	6492.8	6770.0	7055.0	7301.1	7329.6	7391.8	7340.0	7259.7	7257.1
27.5°	6640.5	6684.5	6837.4	7122.4	7404.8	7661.3	7715.7	7798.6	7684.6	7586.1	7516.2
30°	7049.8	7078.3	7246.7	7549.9	7840.0	8083.6	8153.5	8236.5	8151.0	7987.7	7917.8
32.5°	7526.6	7565.4	7759.7	8078.4	8337.5	8581.0	8651.0	8754.6	8661.4	8477.4	8389.3
35°	8099.1	8138.0	8342.7	8689.9	8954.1	9205.4	9254.7	9340.2	9223.6	9011.1	8941.2
37.5°	8721.0	8770.2	9029.3	9358.3	9635.5	9928.3	9930.9	9956.8	9791.0	9526.7	9449.0
40°	9420.5	9485.3	9744.4	10086.4	10420.6	10658.9	10656.4	10583.8	10304.0	9894.6	9775.4
42.5°	10112.3	10164.1	10425.8	10778.1	11112.3	11337.8	11270.4	11094.2	10690.0	10133.0	9974.9
45°	10612.3	10651.2	10925.8	11322.2	11661.6	11801.5	11679.8	11467.3	10920.6	10283.3	10050.1
47.5°	10848.1	10899.9	11177.1	11570.9	11954.4	12034.7	11889.6	11690.1	11055.3	10423.2	10109.7
50°	10721.1	10788.5	11102.0	11467.3	11900.0	12065.8	11962.2	11762.7	11197.8	10560.5	10215.9
52.5°	10392.1	10456.9	10853.3	11296.3	11786.0	12115.0	12112.4	11949.2	11361.1	10599.4	10221.1
55°	9267.6	9394.6	10011.2	10775.5	11646.1	12260.1	12322.3	12148.7	11387.0	10609.7	10275.5
57.5°	6031.6	6254.4	6840.0	7834.9	9581.1	11151.2	11570.9	11612.4	11200.4	10565.7	10285.9
60°	2518.3	2697.1	3160.9	3821.6	5264.7	7132.7	7946.3	8762.4	9746.9	10104.5	10190.0
62.5°	1564.9	1580.4	1627.1	1777.4	2259.3	3171.3	3694.6	4458.9	5922.8	7169.0	7744.2
65°	1412.0	1419.8	1430.2	1419.8	1443.1	1554.5	1694.4	1961.3	2557.2	3176.4	3912.3
67.5°	1243.6	1254.0	1261.8	1254.0	1261.8	1266.9	1282.5	1305.8	1414.6	1502.7	1570.1
70°	1005.3	1020.8	1033.8	1028.6	1059.7	1059.7	1075.2	1093.4	1147.8	1212.5	1259.2
72.5°	766.9	754.0	769.5	774.7	803.2	818.7	842.0	862.8	924.9	963.8	1023.4
75°	497.5	484.5	507.8	520.8	559.6	580.4	601.1	621.8	665.9	691.8	748.8
77.5°	269.5	266.9	290.2	308.3	349.8	375.7	391.2	406.8	443.0	450.8	487.1
80°	155.5	155.5	171.0	184.0	209.9	238.4	253.9	266.9	292.8	300.5	316.1
82.5°	85.5	85.5	93.3	101.0	121.8	137.3	150.3	160.6	184.0	191.7	199.5
85°	41.5	38.9	44.0	49.2	57.0	64.8	72.5	77.7	95.9	101.0	111.4
87.5°	5.2	5.2	5.2	7.8	10.4	15.5	18.1	18.1	28.5	33.7	38.9
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°	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7	5277.7
2.5°	5329.5	5295.8	5316.5	5324.3	5324.3	5316.5	5282.8	5272.5	5256.9	5233.6	5233.6
5°	5448.7	5422.7	5427.9	5415.0	5383.9	5345.0	5282.8	5251.7	5225.8	5197.3	5194.7
7.5°	5653.3	5619.7	5614.5	5565.2	5482.3	5399.4	5306.2	5249.2	5210.3	5174.0	5171.4
10°	5920.2	5889.1	5850.2	5751.8	5630.0	5508.2	5381.3	5303.6	5246.6	5194.7	5192.2
12.5°	6218.1	6181.9	6109.3	5964.2	5811.4	5692.2	5547.1	5427.9	5342.4	5272.5	5259.5
15°	6542.0	6490.2	6365.8	6194.8	6044.6	5917.6	5762.2	5591.2	5461.6	5350.2	5337.2
17.5°	6790.7	6723.4	6588.6	6428.0	6303.6	6176.7	5974.6	5759.6	5573.0	5433.1	5412.4
20°	6961.7	6907.3	6754.5	6635.3	6562.7	6451.3	6215.6	5972.0	5762.2	5586.0	5575.6
22.5°	7119.8	7055.0	6904.7	6834.8	6834.8	6759.6	6534.2	6246.6	6000.5	5795.8	5769.9
25°	7298.6	7228.6	7114.6	7106.8	7143.1	7109.4	6837.4	6529.1	6241.5	6010.9	5969.4
27.5°	7547.3	7469.6	7402.2	7448.8	7500.6	7464.4	7161.2	6803.7	6500.6	6267.4	6231.1
30°	7943.7	7847.8	7785.6	7842.6	7943.7	7837.5	7508.4	7130.1	6824.4	6567.9	6549.8
32.5°	8404.9	8296.0	8231.3	8322.0	8412.6	8246.8	7920.4	7557.6	7236.4	6966.9	6935.8
35°	8959.3	8822.0	8726.1	8847.9	8941.2	8778.0	8454.1	8109.5	7752.0	7472.1	7430.7
37.5°	9451.6	9285.8	9221.0	9392.0	9516.4	9410.1	9057.8	8733.9	8342.7	8037.0	8018.8
40°	9809.1	9645.9	9599.3	9881.7	10099.3	10073.4	9757.3	9386.8	9018.9	8666.5	8632.9
42.5°	9964.6	9850.6	9860.9	10241.8	10578.6	10744.4	10462.0	10065.6	9710.7	9345.4	9322.0
45°	9998.3	9928.3	10011.2	10487.9	10931.0	11270.4	11029.4	10697.8	10296.2	9943.9	9933.5
47.5°	10034.5	9995.7	10122.6	10627.9	11153.8	11547.6	11412.9	11070.9	10664.1	10319.5	10293.6
50°	10120.0	10104.5	10247.0	10726.3	11260.0	11622.8	11469.9	11130.5	10713.4	10373.9	10311.8
52.5°	10145.9	10120.0	10324.7	10879.2	11436.2	11620.2	11291.1	10848.1	10428.4	10050.1	9985.3
55°	10226.3	10179.6	10319.5	10936.2	11679.8	11770.4	11280.8	10617.5	10031.9	9516.4	9363.5
57.5°	10247.0	10195.2	10285.9	10842.9	11415.5	11335.2	9915.4	8568.1	7464.4	6891.8	6956.6
60°	10135.6	10151.1	9995.7	9933.5	9156.2	8083.6	6070.5	4852.7	3811.2	3370.8	3466.6
62.5°	7715.7	7780.5	7249.3	6303.6	4847.6	3842.3	2541.7	1974.3	1671.1	1593.4	1606.4
65°	3894.1	3982.2	3430.3	2837.0	2109.0	1704.8	1474.2	1427.6	1412.0	1393.9	1393.9
67.5°	1541.6	1567.5	1546.8	1448.3	1347.3	1311.0	1300.6	1295.4	1277.3	1266.9	1269.5
70°	1238.4	1259.2	1228.1	1165.9	1124.4	1121.9	1116.7	1106.3	1093.4	1093.4	1101.1
72.5°	1010.4	1031.2	987.1	948.3	917.2	893.9	880.9	873.1	855.0	855.0	862.8
75°	743.6	756.5	720.3	715.1	681.4	658.1	637.4	627.0	603.7	593.3	601.1
77.5°	494.9	492.3	474.1	474.1	461.2	432.7	409.4	386.0	355.0	334.2	339.4
80°	321.3	321.3	313.5	313.5	300.5	277.2	248.7	225.4	207.3	191.7	191.7
82.5°	204.7	202.1	199.5	196.9	191.7	168.4	147.7	132.1	119.2	108.8	111.4
85°	114.0	114.0	108.8	108.8	98.5	85.5	75.1	64.8	57.0	54.4	54.4
87.5°	38.9	38.9	36.3	36.3	31.1	23.3	18.1	15.5	13.0	10.4	13.0
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)