

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: P640282

Luminaire Tested: GWS-SA5D-750-U-RW-W-GRSWH

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640282
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-SA5D-750-U-RW-W-GRSWH
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE 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: 27089 lumens
Efficiency: N/A
Efficacy: 132.4 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

Input Watts (W): 204.6
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

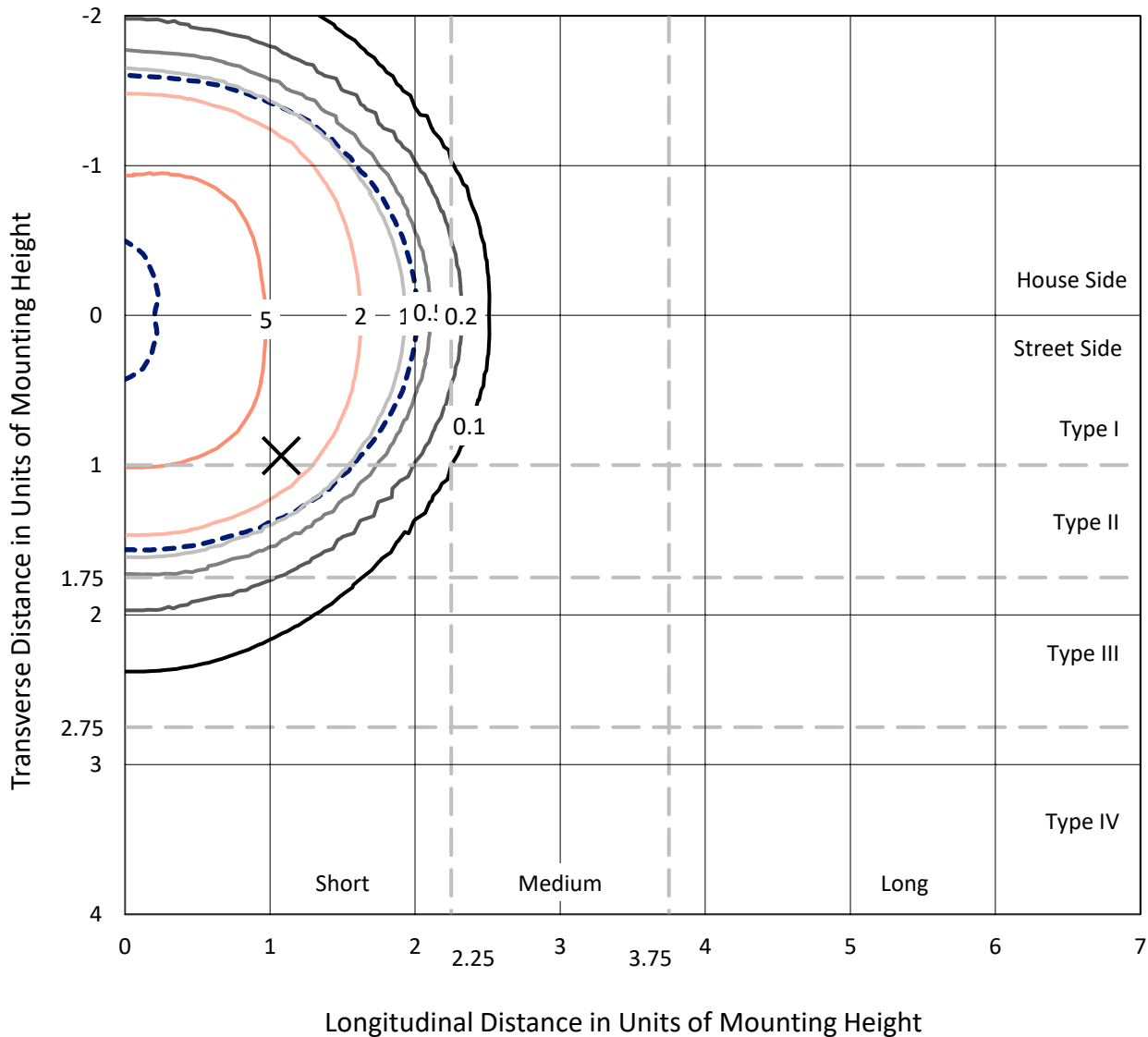


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Iso-Footcandle Lines of Horizontal Illumination

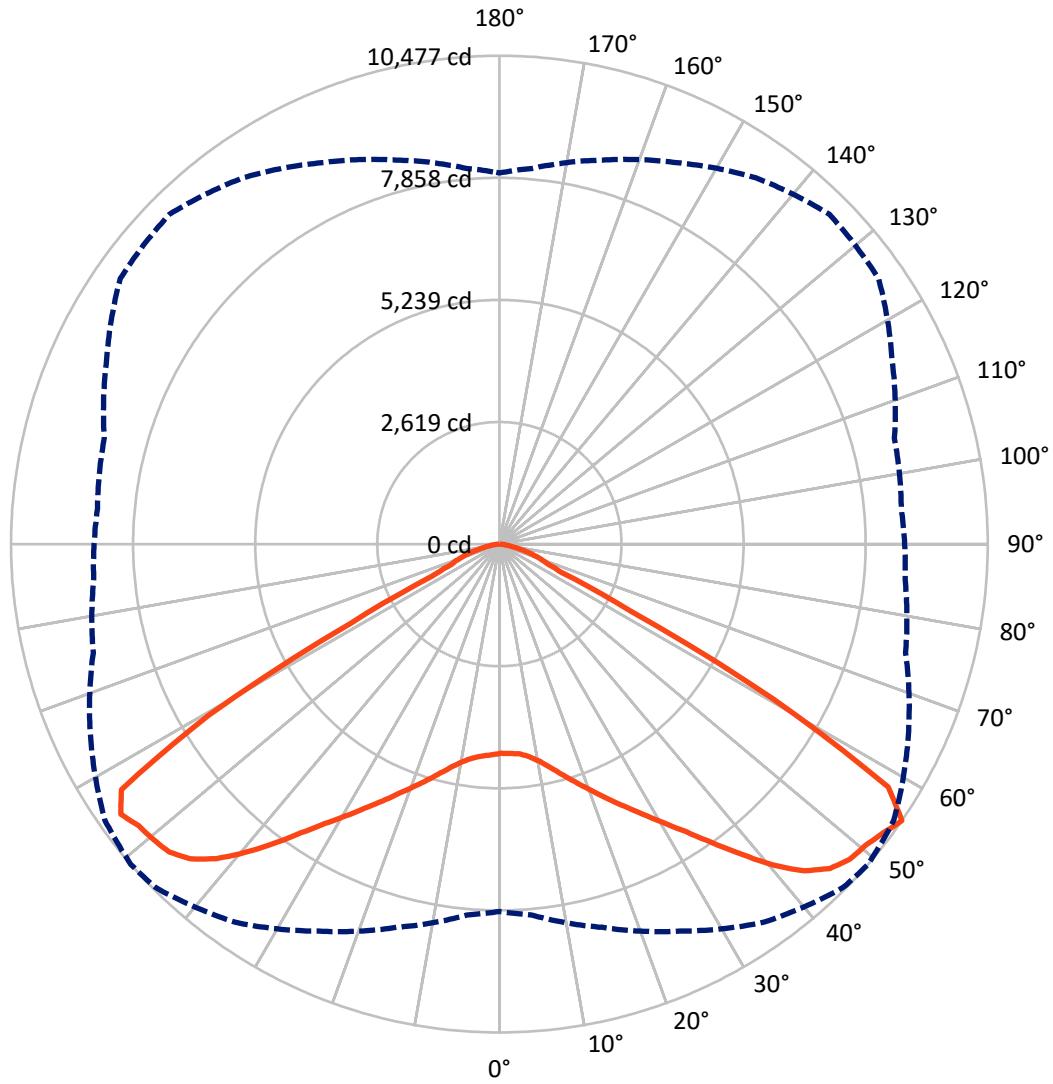
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 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	13411.6	0.0	13411.6
	% Fixture	49.5	0.0	49.5
Street Side	Lumens	13677.4	0.0	13677.4
	% Fixture	50.5	0.0	50.5
Total	Lumens	27089.0	0.0	27089.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	437.7	1.6
10°-20°	1443.9	5.3
20°-30°	2750.2	10.2
30°-40°	4662.2	17.2
40°-50°	7016.2	25.9
50°-60°	7680.0	28.4
60°-70°	2428.4	9.0
70°-80°	582.8	2.2
80°-90°	87.5	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°	27089.0	100.0
0°-180°	27089.0	100.0

Coefficient of Utilization



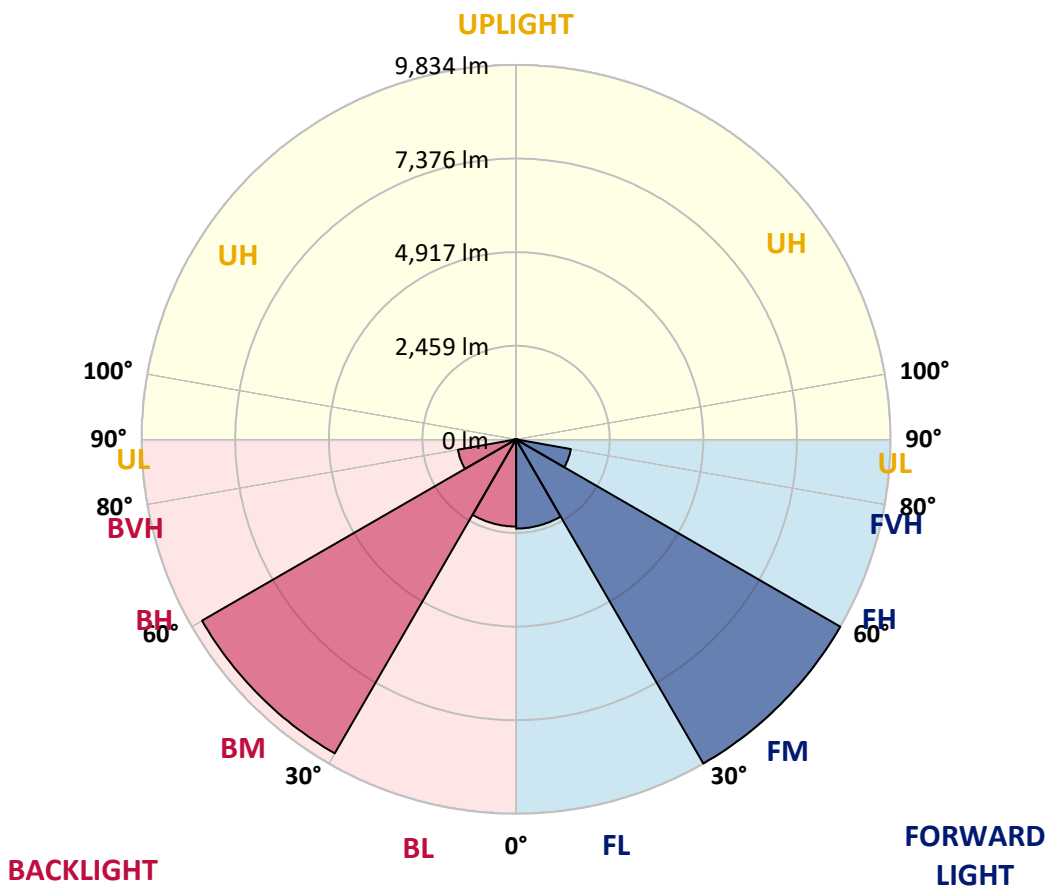
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2342.1	8.6			
FM (30°-60°)	9834.1	36.3			
FH (60°-80°)	1460.7	5.4			G1/1800
FVH (80°-90°)	40.5	0.1			G1/100
BL (0°-30°)	2289.8	8.5	B3/2500		
BM (30°-60°)	9524.4	35.2	B5		
BH (60°-80°)	1550.5	5.7	B3/2500		G1/1800
BVH (80°-90°)	47.0	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-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	49°	55°	65°	75°	85°
0°	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5
2.5°	4421.4	4425.8	4434.6	4450.0	4465.4	4487.5	4496.3	4507.3	4505.1	4518.3	4518.3
5°	4399.3	4405.9	4419.2	4441.2	4467.6	4509.5	4520.5	4546.9	4573.4	4606.4	4617.4
7.5°	4425.8	4434.6	4450.0	4485.3	4524.9	4580.0	4602.0	4646.1	4696.7	4756.2	4780.5
10°	4476.4	4487.5	4513.9	4571.2	4635.1	4718.8	4738.6	4793.7	4875.2	4956.7	5005.2
12.5°	4533.7	4551.3	4599.8	4690.1	4784.9	4895.0	4925.8	4994.1	5082.3	5188.0	5254.1
15°	4599.8	4615.2	4690.1	4817.9	4965.5	5110.9	5146.1	5212.2	5311.4	5414.9	5507.4
17.5°	4738.6	4765.0	4853.2	5000.7	5172.6	5344.4	5384.1	5459.0	5538.3	5619.8	5707.9
20°	4928.1	4950.1	5062.4	5245.3	5448.0	5604.4	5644.0	5710.1	5747.6	5789.4	5864.3
22.5°	5117.5	5148.3	5276.1	5492.0	5729.9	5899.6	5930.4	5992.1	5965.7	5952.4	6000.9
25°	5353.2	5395.1	5520.7	5756.4	5998.7	6208.0	6232.2	6285.1	6241.0	6172.7	6170.5
27.5°	5646.2	5683.7	5813.6	6056.0	6296.1	6514.2	6560.5	6631.0	6534.0	6450.3	6390.8
30°	5994.3	6018.5	6161.7	6419.5	6666.2	6873.3	6932.8	7003.3	6930.6	6791.8	6732.3
32.5°	6399.6	6432.7	6597.9	6868.9	7089.2	7296.2	7355.7	7443.8	7364.5	7208.1	7133.2
35°	6886.5	6919.5	7093.6	7388.8	7613.5	7827.2	7869.0	7941.7	7842.6	7661.9	7602.5
37.5°	7415.2	7457.1	7677.4	7957.1	8192.9	8441.8	8444.0	8466.0	8325.0	8100.3	8034.2
40°	8010.0	8065.1	8285.4	8576.2	8860.4	9063.0	9060.8	8999.1	8761.2	8413.2	8311.8
42.5°	8598.2	8642.3	8864.8	9164.4	9448.6	9640.2	9582.9	9433.1	9089.5	8615.8	8481.4
45°	9023.4	9056.4	9289.9	9627.0	9915.6	10034.5	9931.0	9750.4	9285.5	8743.6	8545.3
47.5°	9223.9	9267.9	9503.6	9838.5	10164.5	10232.8	10109.4	9939.8	9400.1	8862.6	8596.0
50°	9115.9	9173.2	9439.7	9750.4	10118.3	10259.2	10171.1	10001.5	9521.3	8979.3	8686.3
52.5°	8836.1	8891.2	9228.3	9605.0	10021.3	10301.1	10298.9	10160.1	9660.0	9012.4	8690.7
55°	7880.0	7988.0	8512.3	9162.2	9902.4	10424.5	10477.3	10329.7	9682.1	9021.2	8737.0
57.5°	5128.5	5318.0	5815.9	6661.8	8146.6	9481.6	9838.5	9873.7	9523.5	8983.7	8745.8
60°	2141.3	2293.3	2687.6	3249.4	4476.4	6064.8	6756.5	7450.5	8287.6	8591.6	8664.3
62.5°	1330.6	1343.8	1383.5	1511.2	1921.0	2696.4	3141.4	3791.3	5036.0	6095.6	6584.7
65°	1200.6	1207.2	1216.0	1207.2	1227.1	1321.8	1440.7	1667.7	2174.3	2700.8	3326.5
67.5°	1057.4	1066.2	1072.8	1066.2	1072.8	1077.3	1090.5	1110.3	1202.8	1277.7	1335.0
70°	854.8	868.0	879.0	874.6	901.0	901.0	914.2	929.7	975.9	1031.0	1070.6
72.5°	652.1	641.1	654.3	658.7	682.9	696.1	716.0	733.6	786.5	819.5	870.2
75°	423.0	412.0	431.8	442.8	475.8	493.5	511.1	528.7	566.2	588.2	636.7
77.5°	229.1	226.9	246.7	262.2	297.4	319.4	332.6	345.9	376.7	383.3	414.2
80°	132.2	132.2	145.4	156.4	178.4	202.7	215.9	226.9	248.9	255.5	268.8
82.5°	72.7	72.7	79.3	85.9	103.5	116.8	127.8	136.6	156.4	163.0	169.6
85°	35.2	33.0	37.5	41.9	48.5	55.1	61.7	66.1	81.5	85.9	94.7
87.5°	4.4	4.4	4.4	6.6	8.8	13.2	15.4	15.4	24.2	28.6	33.0
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°	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5	4487.5
2.5°	4531.5	4502.9	4520.5	4527.1	4527.1	4520.5	4491.9	4483.1	4469.8	4450.0	4450.0
5°	4632.9	4610.8	4615.2	4604.2	4577.8	4544.7	4491.9	4465.4	4443.4	4419.2	4417.0
7.5°	4806.9	4778.2	4773.8	4732.0	4661.5	4591.0	4511.7	4463.2	4430.2	4399.3	4397.1
10°	5033.8	5007.4	4974.3	4890.6	4787.1	4683.5	4575.6	4509.5	4461.0	4417.0	4414.8
12.5°	5287.1	5256.3	5194.6	5071.2	4941.3	4839.9	4716.6	4615.2	4542.5	4483.1	4472.0
15°	5562.5	5518.4	5412.7	5267.3	5139.5	5031.6	4899.4	4754.0	4643.9	4549.1	4538.1
17.5°	5774.0	5716.7	5602.2	5465.6	5359.8	5251.9	5080.1	4897.2	4738.6	4619.6	4602.0
20°	5919.4	5873.1	5743.2	5641.8	5580.1	5485.4	5284.9	5077.9	4899.4	4749.6	4740.8
22.5°	6053.8	5998.7	5870.9	5811.4	5811.4	5747.6	5555.9	5311.4	5102.1	4928.1	4906.0
25°	6205.8	6146.3	6049.4	6042.8	6073.6	6045.0	5813.6	5551.5	5307.0	5110.9	5075.7
27.5°	6417.3	6351.2	6293.9	6333.5	6377.6	6346.8	6089.0	5785.0	5527.3	5329.0	5298.2
30°	6754.3	6672.8	6619.9	6668.4	6754.3	6664.0	6384.2	6062.6	5802.6	5584.5	5569.1
32.5°	7146.4	7053.9	6998.8	7076.0	7153.1	7012.1	6734.5	6426.1	6152.9	5923.8	5897.4
35°	7617.9	7501.1	7419.6	7523.2	7602.5	7463.7	7188.3	6895.3	6591.3	6353.4	6318.1
37.5°	8036.4	7895.5	7840.4	7985.8	8091.5	8001.2	7701.6	7426.2	7093.6	6833.6	6818.2
40°	8340.5	8201.7	8162.0	8402.1	8587.2	8565.2	8296.4	7981.4	7668.6	7368.9	7340.3
42.5°	8472.6	8375.7	8384.5	8708.4	8994.7	9135.7	8895.6	8558.6	8256.7	7946.1	7926.3
45°	8501.3	8441.8	8512.3	8917.6	9294.3	9582.9	9378.1	9096.1	8754.6	8455.0	8446.2
47.5°	8532.1	8499.1	8607.0	9036.6	9483.8	9818.7	9704.1	9413.3	9067.4	8774.4	8752.4
50°	8604.8	8591.6	8712.8	9120.3	9574.1	9882.5	9752.6	9464.0	9109.3	8820.7	8767.8
52.5°	8626.8	8604.8	8778.8	9250.3	9723.9	9880.3	9600.6	9223.9	8867.0	8545.3	8490.3
55°	8695.1	8655.5	8774.4	9298.8	9931.0	10008.1	9591.7	9027.8	8529.9	8091.5	7961.5
57.5°	8712.8	8668.7	8745.8	9219.4	9706.3	9638.0	8430.8	7285.2	6346.8	5859.9	5915.0
60°	8618.0	8631.3	8499.1	8446.2	7785.3	6873.3	5161.6	4126.2	3240.6	2866.1	2947.6
62.5°	6560.5	6615.5	6163.9	5359.8	4121.8	3267.0	2161.1	1678.7	1420.9	1354.8	1365.8
65°	3311.1	3386.0	2916.7	2412.3	1793.2	1449.6	1253.5	1213.8	1200.6	1185.2	1185.2
67.5°	1310.8	1332.8	1315.2	1231.5	1145.5	1114.7	1105.9	1101.5	1086.1	1077.3	1079.5
70°	1053.0	1070.6	1044.2	991.3	956.1	953.9	949.5	940.7	929.7	929.7	936.3
72.5°	859.2	876.8	839.3	806.3	779.9	760.0	749.0	742.4	727.0	727.0	733.6
75°	632.3	643.3	612.4	608.0	579.4	559.6	541.9	533.1	513.3	504.5	511.1
77.5°	420.8	418.6	403.1	403.1	392.1	367.9	348.1	328.2	301.8	284.2	288.6
80°	273.2	273.2	266.6	266.6	255.5	235.7	211.5	191.7	176.2	163.0	163.0
82.5°	174.0	171.8	169.6	167.4	163.0	143.2	125.6	112.4	101.3	92.5	94.7
85°	96.9	96.9	92.5	92.5	83.7	72.7	63.9	55.1	48.5	46.3	46.3
87.5°	33.0	33.0	30.8	30.8	26.4	19.8	15.4	13.2	11.0	8.8	11.0
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)