

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: P641191

Luminaire Tested: GWS-SA5F-735-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641191
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-24)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA5F-735-U-T3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25420.8 lumens
Efficiency: N/A
Efficacy: 81.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

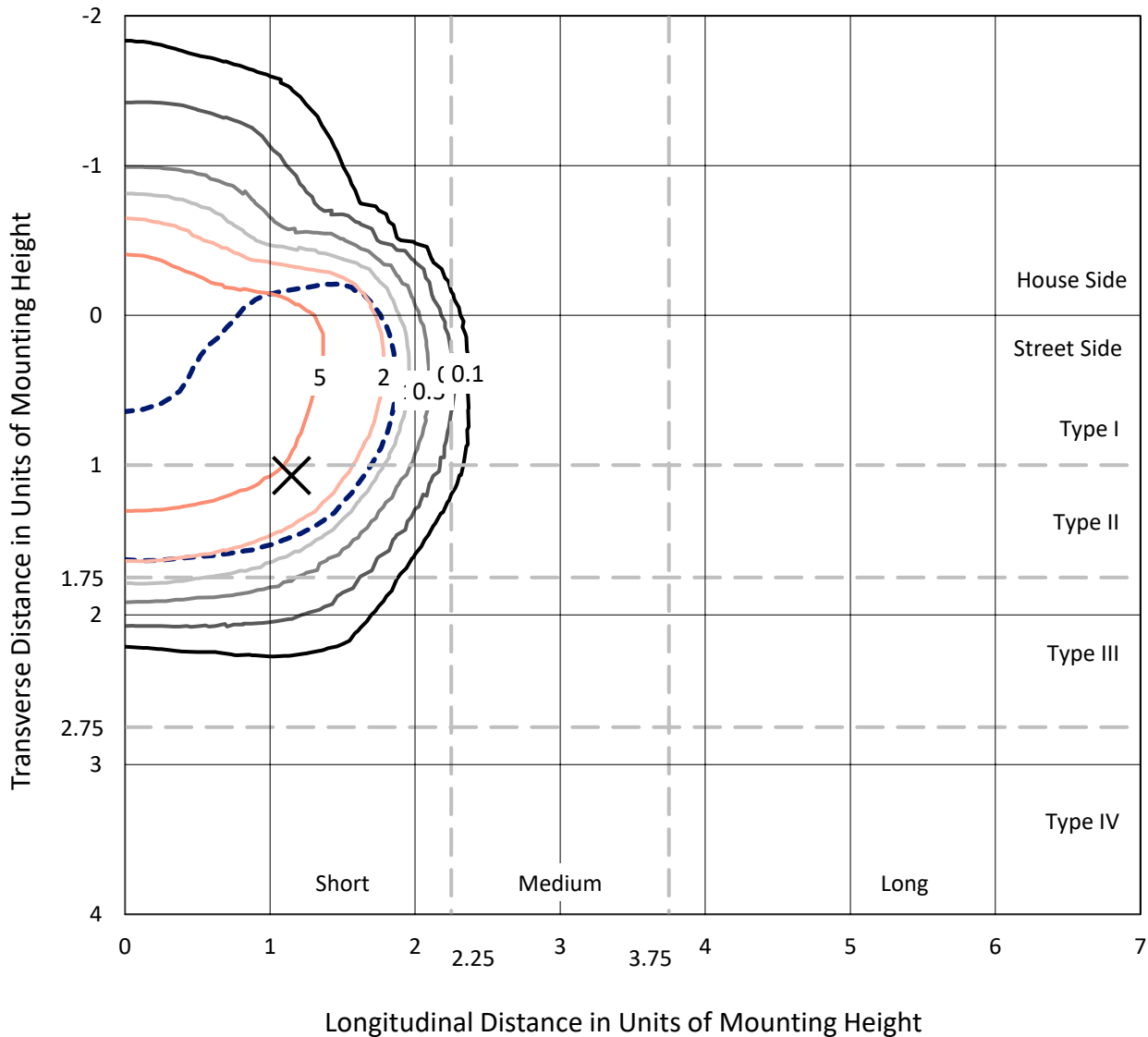
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

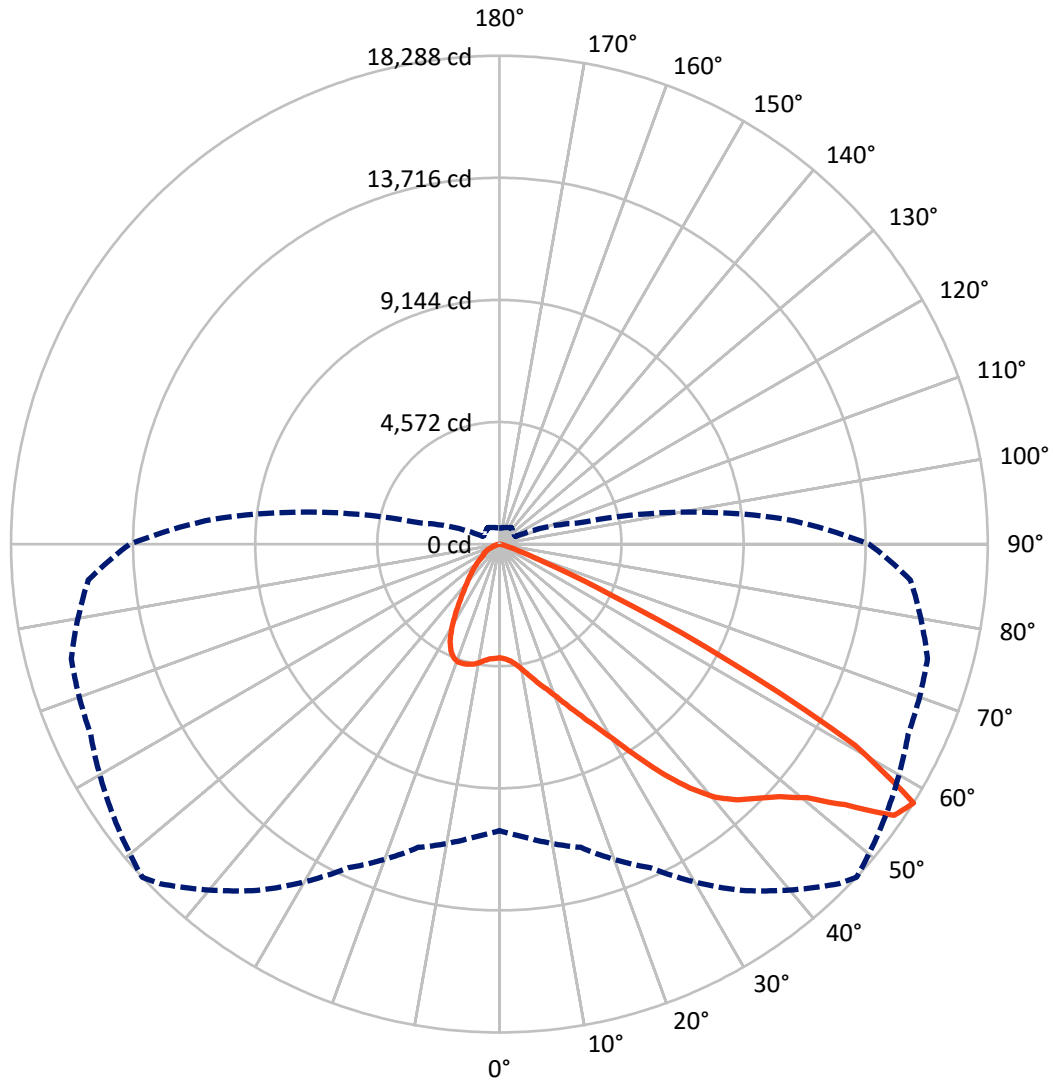
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 47-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5515.0	0.0	5515.0
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	19905.8	0.0	19905.8
	% Fixture	78.3	0.0	78.3
Total	Lumens	25420.8	0.0	25420.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	423.4	1.7
10°-20°	1428.5	5.6
20°-30°	2652.5	10.4
30°-40°	4246.1	16.7
40°-50°	6206.8	24.4
50°-60°	7660.3	30.1
60°-70°	2559.6	10.1
70°-80°	238.5	0.9
80°-90°	5.0	0.0
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°	25420.8	100.0
0°-180°	25420.8	100.0

Coefficient of Utilization



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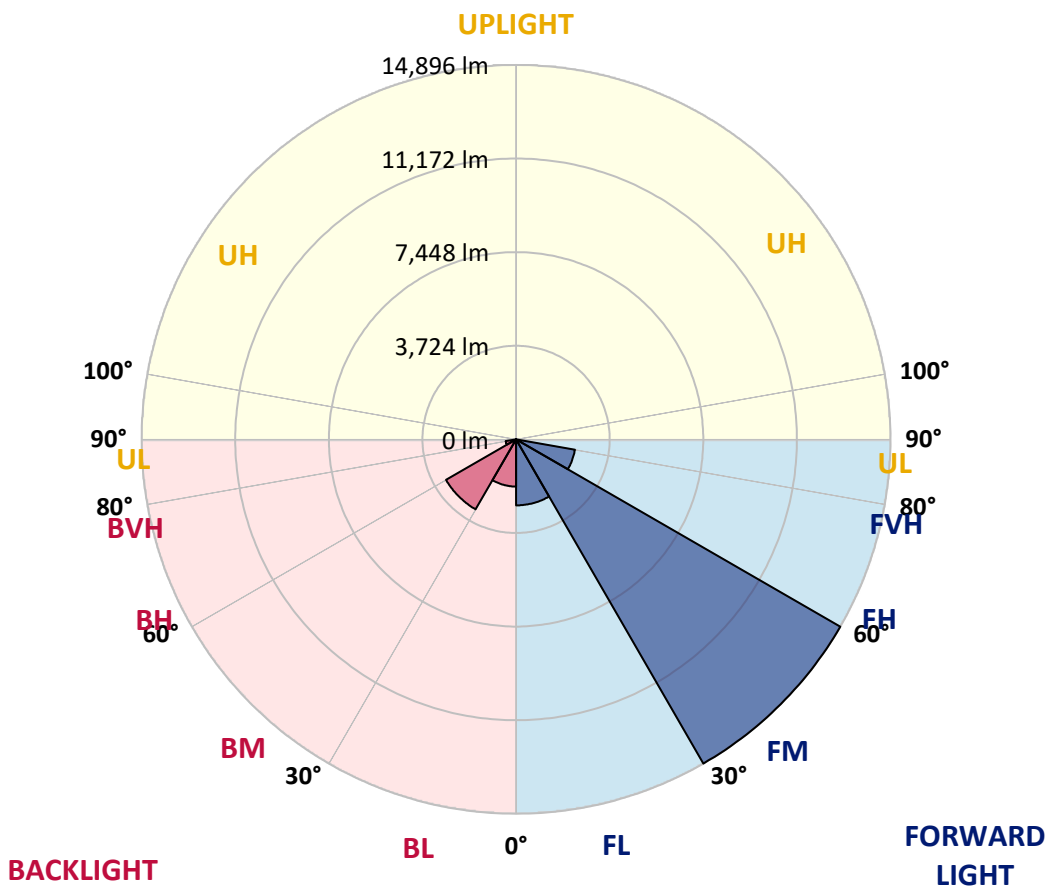
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2627.2	10.3			
FM (30°-60°)	14896.4	58.6			
FH (60°-80°)	2378.9	9.4			G2/5000
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	1877.2	7.4	B3/2500		
BM (30°-60°)	3216.9	12.7	B3/5000		
BH (60°-80°)	419.3	1.6	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4255.5	4255.5	4255.5	4255.5	4255.5	4255.5	4255.5	4255.5	4255.5	4255.5	4255.5
2.5°	4299.7	4296.8	4293.8	4311.5	4305.6	4302.7	4308.6	4308.6	4308.6	4290.9	4255.5
5°	4403.0	4403.0	4400.1	4417.8	4403.0	4394.2	4397.1	4397.1	4385.3	4352.9	4308.6
7.5°	4565.3	4559.4	4553.5	4571.2	4556.5	4553.5	4559.4	4541.7	4521.1	4467.9	4406.0
10°	4798.5	4798.5	4789.6	4807.3	4795.5	4789.6	4789.6	4777.8	4739.4	4656.8	4565.3
12.5°	5120.1	5105.4	5084.7	5070.0	5064.1	5061.1	5064.1	5046.4	5005.0	4898.8	4771.9
15°	5471.3	5459.5	5427.1	5403.4	5371.0	5365.1	5382.8	5368.0	5326.7	5182.1	5002.1
17.5°	5914.0	5928.7	5846.1	5795.9	5701.5	5695.6	5701.5	5725.1	5695.6	5509.7	5247.0
20°	6291.7	6303.5	6241.6	6206.1	6120.6	6082.2	6094.0	6132.4	6099.9	5881.5	5515.6
22.5°	6696.0	6710.8	6645.9	6572.1	6533.7	6533.7	6578.0	6631.1	6586.8	6300.6	5822.5
25°	7180.0	7191.8	7138.7	7041.3	6973.4	7059.0	7123.9	7265.6	7191.8	6802.3	6185.5
27.5°	7734.8	7737.8	7661.0	7560.7	7525.3	7684.6	7749.6	7967.9	7938.4	7365.9	6569.1
30°	8328.0	8330.9	8313.2	8245.3	8212.9	8422.4	8510.9	8826.7	8806.0	8065.3	7091.5
32.5°	8944.7	8944.7	8977.2	8971.3	9009.7	9352.0	9493.7	9853.7	9833.0	8921.1	7740.7
35°	9564.5	9567.4	9623.5	9765.2	9924.5	10379.0	10564.9	11001.7	10954.4	9945.2	8570.0
37.5°	10269.8	10240.3	10317.0	10529.5	10883.6	11408.9	11586.0	12002.1	11949.0	10992.8	9653.0
40°	11119.7	11066.6	11066.6	11314.5	11715.8	12320.8	12471.3	12677.9	12497.9	11839.8	10715.4
42.5°	12058.1	12008.0	11943.1	12161.4	12497.9	12970.0	13094.0	13037.9	12890.4	12639.5	11925.3
45°	13008.4	12931.7	12975.9	13108.7	13303.5	13527.8	13575.0	13315.3	13247.4	13318.3	12925.8
47.5°	13731.4	13678.3	13787.5	13973.4	14132.8	14165.2	14132.8	13772.7	13766.8	14017.7	13619.3
50°	13973.4	13979.3	14280.3	14687.6	14944.3	14970.9	14926.6	14513.5	14457.4	14531.2	13994.1
52.5°	13997.0	14020.6	14460.3	15236.5	15935.9	16254.6	16219.2	15773.6	15224.7	15145.0	14560.7
55°	13427.5	13566.2	14180.0	15313.2	16800.5	17818.7	17936.7	17083.8	16269.3	16201.5	15779.5
57.5°	10733.1	11016.4	11757.1	13371.4	15835.5	17981.0	18287.9	17674.1	16886.1	16596.9	15451.9
60°	6415.7	6766.8	7478.1	9458.2	12052.2	14779.0	15307.3	15392.9	15029.9	14194.7	11854.5
62.5°	2753.4	2723.9	3600.3	5117.2	7168.2	9393.3	9632.4	10004.2	10320.0	9446.4	7194.8
65°	944.3	1027.0	1428.3	2307.8	3588.5	4361.7	4574.2	4907.7	5356.2	4420.7	2635.3
67.5°	584.3	619.7	823.4	1363.4	1935.9	1906.4	1812.0	1758.8	1711.6	1171.6	723.0
70°	425.0	454.5	578.4	938.4	1301.4	914.8	793.8	643.3	714.2	658.1	513.5
72.5°	286.3	309.9	398.4	569.6	666.9	445.6	413.2	469.2	566.6	540.0	419.1
75°	171.2	185.9	227.2	277.4	271.5	230.2	233.1	330.5	433.8	404.3	298.1
77.5°	118.0	123.9	150.5	180.0	132.8	70.8	64.9	91.5	147.6	147.6	100.3
80°	29.5	38.4	38.4	23.6	20.7	17.7	17.7	26.6	41.3	29.5	14.8
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	5.9	5.9	5.9	5.9
85°	0.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0	5.9	5.9	5.9
87.5°	0.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	5.9	5.9
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°	4255.5	4255.5	4255.5	4255.5	4255.5	4255.5	4255.5	4255.5	4255.5	4255.5	4255.5
2.5°	4276.1	4240.7	4264.3	4258.4	4276.1	4282.0	4255.5	4249.6	4252.5	4217.1	4205.3
5°	4317.4	4276.1	4287.9	4276.1	4296.8	4314.5	4305.6	4317.4	4332.2	4305.6	4293.8
7.5°	4406.0	4364.7	4361.7	4344.0	4373.5	4385.3	4382.4	4414.8	4444.3	4426.6	4408.9
10°	4559.4	4503.4	4497.5	4482.7	4491.6	4500.4	4467.9	4473.8	4500.4	4479.8	4470.9
12.5°	4748.3	4680.4	4665.7	4630.3	4630.3	4586.0	4515.2	4500.4	4521.1	4506.3	4491.6
15°	4951.9	4860.4	4836.8	4774.9	4715.8	4633.2	4559.4	4541.7	4556.5	4538.8	4527.0
17.5°	5179.2	5075.9	4999.1	4890.0	4760.1	4662.7	4580.1	4541.7	4518.1	4482.7	4479.8
20°	5403.4	5267.7	5137.8	4963.7	4792.6	4645.0	4509.3	4408.9	4323.3	4270.2	4249.6
22.5°	5663.1	5462.5	5252.9	5008.0	4763.1	4538.8	4299.7	4128.6	3981.0	3930.8	3907.2
25°	5940.5	5680.8	5368.0	5049.3	4662.7	4302.7	3978.1	3724.3	3529.5	3464.6	3438.0
27.5°	6247.5	5890.4	5486.1	5040.5	4456.1	3966.3	3535.4	3219.6	3027.8	2968.8	2989.5
30°	6637.0	6161.9	5633.6	4949.0	4146.3	3494.1	2989.5	2723.9	2579.3	2523.2	2526.1
32.5°	7156.4	6551.4	5849.1	4754.2	3747.9	2957.0	2514.3	2319.6	2222.2	2148.4	2142.5
35°	7900.1	7144.6	6049.7	4441.4	3263.9	2478.9	2157.2	2003.8	1868.0	1782.5	1797.2
37.5°	8791.3	7891.2	6158.9	4019.4	2720.9	2107.1	1888.7	1732.3	1578.8	1451.9	1466.7
40°	9847.8	8868.0	6150.1	3464.6	2225.1	1853.3	1664.4	1481.4	1289.6	1174.5	1186.3
42.5°	11025.3	9791.7	5958.2	2877.3	1844.4	1646.7	1449.0	1218.8	1032.9	962.1	965.0
45°	12046.3	10541.3	5621.8	2269.4	1552.3	1446.0	1224.7	988.6	906.0	855.8	852.9
47.5°	12801.8	11090.2	5140.8	1785.4	1316.2	1263.1	1006.3	885.3	820.4	779.1	773.2
50°	13223.8	11282.0	4609.6	1398.8	1112.6	1071.2	900.1	802.7	758.4	731.9	726.0
52.5°	13790.4	11512.2	4228.9	1103.7	932.5	876.5	829.3	746.6	717.1	696.5	687.6
55°	14687.6	11957.8	3898.4	876.5	776.1	764.3	782.0	714.2	696.5	664.0	652.2
57.5°	13843.6	10742.0	3027.8	678.8	655.1	699.4	755.5	681.7	637.4	607.9	596.1
60°	9741.5	7141.6	1522.8	546.0	584.3	655.1	711.2	616.8	572.5	578.4	572.5
62.5°	5371.0	3573.8	684.7	457.4	507.6	578.4	607.9	534.1	504.6	554.8	563.7
65°	1755.9	1215.8	395.4	354.1	401.3	472.2	525.3	507.6	501.7	560.7	578.4
67.5°	540.0	401.3	268.5	253.8	277.4	348.2	442.7	548.9	590.2	607.9	616.8
70°	404.3	315.8	230.2	215.4	227.2	265.6	374.8	457.4	430.9	433.8	427.9
72.5°	324.6	250.8	197.7	188.9	188.9	183.0	197.7	247.9	280.4	295.1	295.1
75°	227.2	177.1	150.5	138.7	109.2	88.5	79.7	79.7	70.8	67.9	64.9
77.5°	76.7	64.9	59.0	47.2	32.5	26.6	23.6	20.7	14.8	8.9	5.9
80°	11.8	8.9	5.9	5.9	5.9	3.0	3.0	3.0	0.0	0.0	0.0
82.5°	5.9	5.9	5.9	5.9	5.9	3.0	3.0	0.0	0.0	0.0	0.0
85°	5.9	5.9	5.9	5.9	5.9	3.0	3.0	0.0	0.0	0.0	0.0
87.5°	5.9	5.9	5.9	5.9	3.0	3.0	3.0	0.0	0.0	0.0	0.0
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)