

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: P641246

Luminaire Tested: GWS-SA5F-740-U-T3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P641246
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-740-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) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25774 lumens
Efficiency: N/A
Efficacy: 83.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

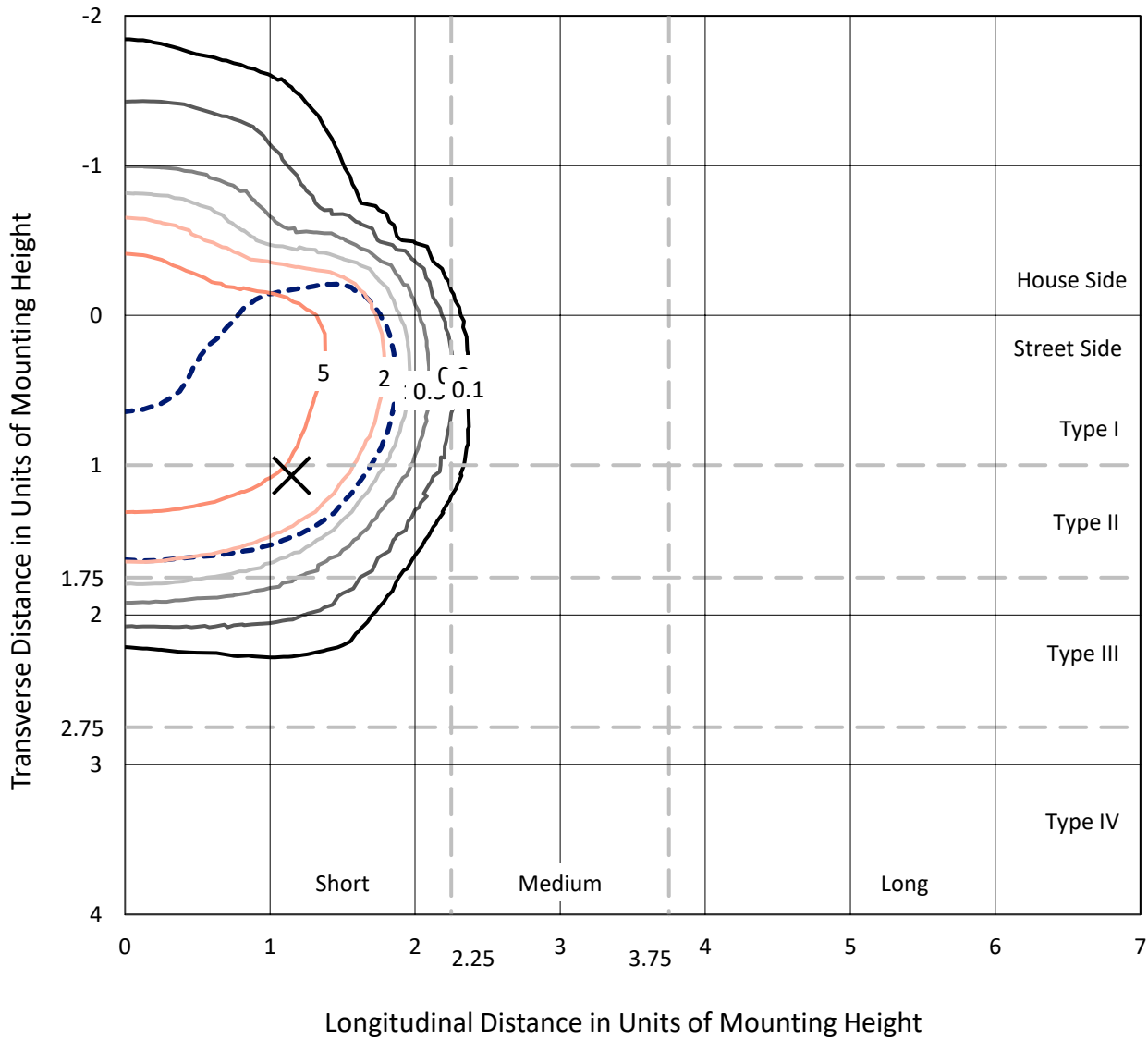
Input Watts (W): 310.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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 CATALOG NUMBER: GWS-SA5F-740-U-T3-W-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

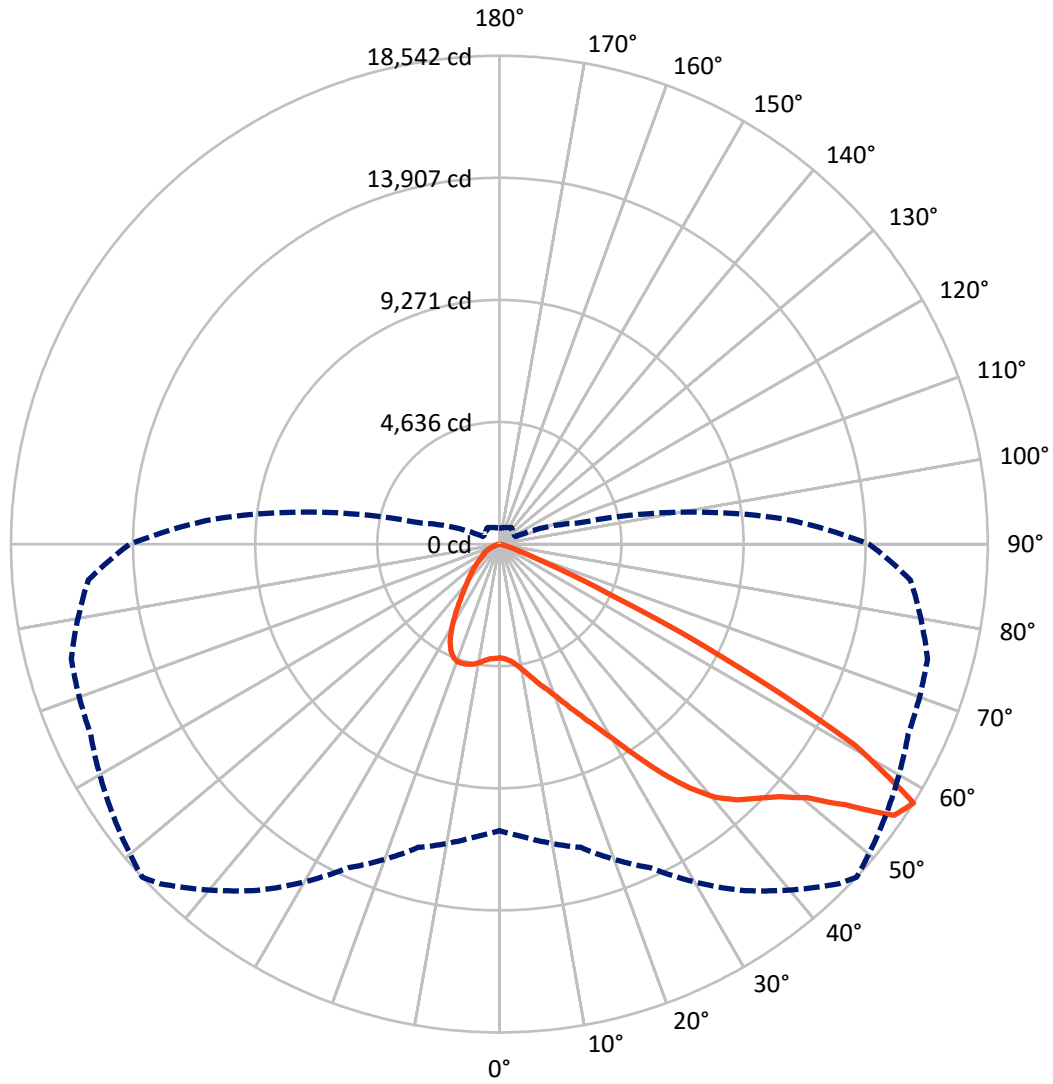
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.8 fc
 Type II - Short - N/A

REPORT NUMBER: P641246
CATALOG NUMBER: GWS-SA5F-740-U-T3-W-GRSBK

Luminous Intensity Polar Plot



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

REPORT NUMBER: P641246

CATALOG NUMBER: GWS-SA5F-740-U-T3-W-GRSBK

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5591.6	0.0	5591.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	20182.4	0.0	20182.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	25774.0	0.0	25774.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.3	1.7
10°-20°	1448.4	5.6
20°-30°	2689.3	10.4
30°-40°	4305.1	16.7
40°-50°	6293.1	24.4
50°-60°	7766.8	30.1
60°-70°	2595.2	10.1
70°-80°	241.8	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°	25774.0	100.0
0°-180°	25774.0	100.0

Coefficient of Utilization



REPORT NUMBER: P641246

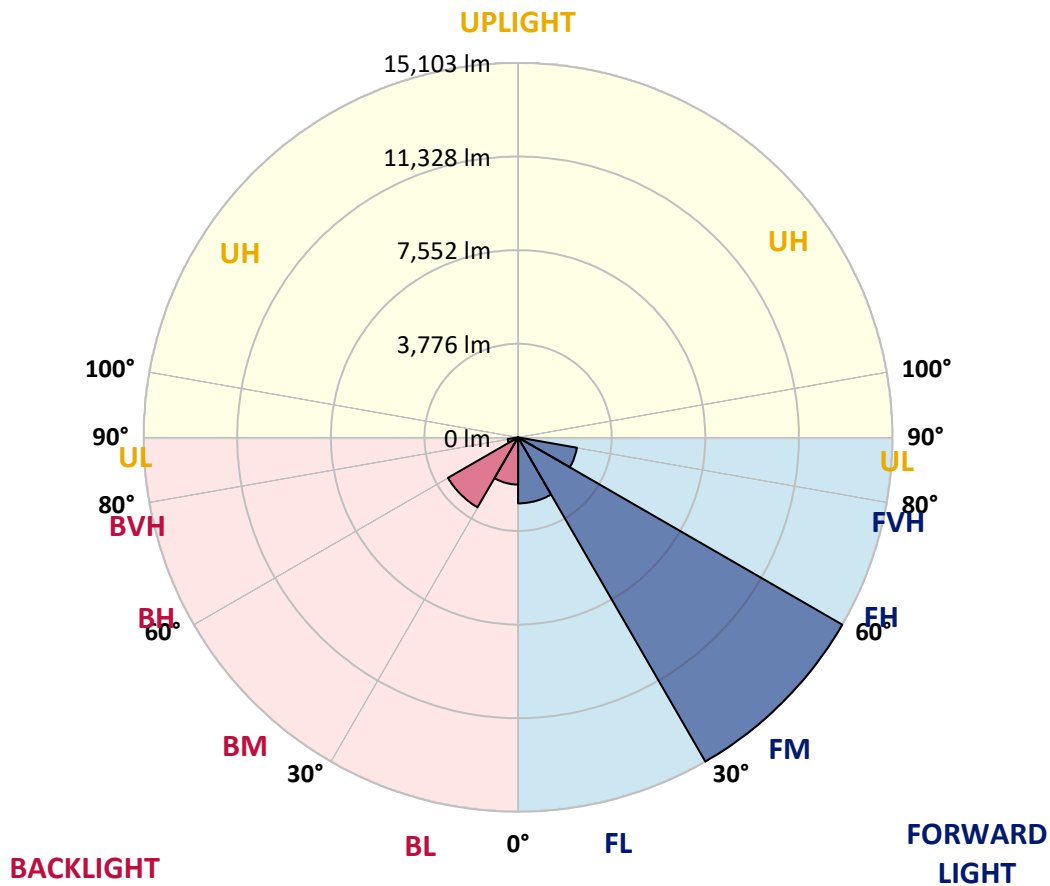
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2663.7	10.3			
FM (30°-60°)	15103.4	58.6			
FH (60°-80°)	2411.9	9.4			G2/5000
FVH (80°-90°)	3.4	0.0			G0/10
BL (0°-30°)	1903.3	7.4	B3/2500		
BM (30°-60°)	3261.6	12.7	B3/5000		
BH (60°-80°)	425.1	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





REPORT NUMBER: P641246

CATALOG NUMBER: GWS-SA5F-740-U-T3-W-GRSBK

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	47°	55°	65°	75°	85°
0°	4314.6	4314.6	4314.6	4314.6	4314.6	4314.6	4314.6	4314.6	4314.6	4314.6	4314.6
2.5°	4359.5	4356.5	4353.5	4371.4	4365.5	4362.5	4368.5	4368.5	4368.5	4350.5	4314.6
5°	4464.2	4464.2	4461.2	4479.2	4464.2	4455.2	4458.2	4458.2	4446.2	4413.3	4368.5
7.5°	4628.8	4622.8	4616.8	4634.7	4619.8	4616.8	4622.8	4604.8	4583.9	4530.0	4467.2
10°	4865.1	4865.1	4856.2	4874.1	4862.1	4856.2	4856.2	4844.2	4805.3	4721.5	4628.8
12.5°	5191.3	5176.3	5155.4	5140.4	5134.4	5131.4	5134.4	5116.5	5074.6	4966.9	4838.2
15°	5547.3	5535.4	5502.5	5478.5	5445.6	5439.6	5457.6	5442.6	5400.7	5254.1	5071.6
17.5°	5996.2	6011.1	5927.3	5876.5	5780.7	5774.7	5780.7	5804.7	5774.7	5586.2	5319.9
20°	6379.1	6391.1	6328.3	6292.4	6205.6	6166.7	6178.7	6217.6	6184.7	5963.2	5592.2
22.5°	6789.1	6804.0	6738.2	6663.4	6624.5	6624.5	6669.4	6723.2	6678.3	6388.1	5903.4
25°	7279.8	7291.7	7237.9	7139.1	7070.3	7157.1	7222.9	7366.5	7291.7	6896.8	6271.4
27.5°	7842.3	7845.3	7767.5	7665.7	7629.8	7791.4	7857.2	8078.6	8048.7	7468.3	6660.4
30°	8443.7	8446.7	8428.7	8359.9	8327.0	8539.4	8629.2	8949.3	8928.4	8177.4	7190.0
32.5°	9069.0	9069.0	9101.9	9096.0	9134.9	9481.9	9625.6	9990.6	9969.6	9045.1	7848.3
35°	9697.4	9700.4	9757.2	9900.8	10062.4	10523.2	10711.7	11154.5	11106.6	10083.3	8689.0
37.5°	10412.5	10382.6	10460.4	10675.8	11034.8	11567.4	11746.9	12168.8	12115.0	11145.5	9787.1
40°	11274.2	11220.3	11220.3	11471.7	11878.6	12492.0	12644.6	12854.0	12671.5	12004.3	10864.3
42.5°	12225.7	12174.8	12109.0	12330.4	12671.5	13150.2	13275.9	13219.1	13069.5	12815.1	12091.0
45°	13189.1	13111.3	13156.2	13290.9	13488.3	13715.7	13763.6	13500.3	13431.5	13503.3	13105.4
47.5°	13922.2	13868.3	13979.0	14167.6	14329.1	14362.0	14329.1	13964.1	13958.1	14212.4	13808.5
50°	14167.6	14173.5	14478.7	14891.6	15151.9	15178.9	15134.0	14715.1	14658.3	14733.1	14188.5
52.5°	14191.5	14215.4	14661.2	15448.2	16157.3	16480.4	16444.5	15992.7	15436.2	15355.4	14763.0
55°	13614.0	13754.6	14377.0	15526.0	17034.0	18066.2	18185.9	17321.2	16495.4	16426.6	15998.7
57.5°	10882.2	11169.5	11920.5	13557.2	16055.6	18230.8	18542.0	17919.6	17120.7	16827.5	15666.6
60°	6504.8	6860.9	7582.0	9589.7	12219.7	14984.4	15520.0	15606.7	15238.7	14392.0	12019.2
62.5°	2791.6	2761.7	3650.4	5188.3	7267.8	9523.8	9766.2	10143.2	10463.3	9577.7	7294.7
65°	957.5	1041.2	1448.2	2339.8	3638.4	4422.3	4637.7	4975.8	5430.6	4482.2	2671.9
67.5°	592.4	628.3	834.8	1382.3	1962.8	1932.9	1837.1	1783.3	1735.4	1187.9	733.1
70°	430.9	460.8	586.4	951.5	1319.5	927.5	804.9	652.3	724.1	667.2	520.6
72.5°	290.2	314.2	403.9	577.5	676.2	451.8	418.9	475.7	574.5	547.6	424.9
75°	173.5	188.5	230.4	281.3	275.3	233.4	236.4	335.1	439.8	409.9	302.2
77.5°	119.7	125.7	152.6	182.5	134.6	71.8	65.8	92.8	149.6	149.6	101.7
80°	29.9	38.9	38.9	23.9	20.9	18.0	18.0	26.9	41.9	29.9	15.0
82.5°	3.0	3.0	3.0	3.0	3.0	3.0	3.0	6.0	6.0	6.0	6.0
85°	0.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0	6.0	6.0	6.0
87.5°	0.0	0.0	3.0	3.0	3.0	3.0	3.0	3.0	3.0	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P641246

CATALOG NUMBER: GWS-SA5F-740-U-T3-W-GRSBK

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4314.6	4314.6	4314.6	4314.6	4314.6	4314.6	4314.6	4314.6	4314.6	4314.6	4314.6
2.5°	4335.5	4299.6	4323.6	4317.6	4335.5	4341.5	4314.6	4308.6	4311.6	4275.7	4263.7
5°	4377.4	4335.5	4347.5	4335.5	4356.5	4374.4	4365.5	4377.4	4392.4	4365.5	4353.5
7.5°	4467.2	4425.3	4422.3	4404.4	4434.3	4446.2	4443.3	4476.2	4506.1	4488.1	4470.2
10°	4622.8	4565.9	4559.9	4545.0	4554.0	4562.9	4530.0	4536.0	4562.9	4542.0	4533.0
12.5°	4814.3	4745.5	4730.5	4694.6	4694.6	4649.7	4577.9	4562.9	4583.9	4568.9	4554.0
15°	5020.7	4928.0	4904.0	4841.2	4781.4	4697.6	4622.8	4604.8	4619.8	4601.8	4589.9
17.5°	5251.1	5146.4	5068.6	4957.9	4826.2	4727.5	4643.7	4604.8	4580.9	4545.0	4542.0
20°	5478.5	5340.9	5209.2	5032.7	4859.2	4709.6	4571.9	4470.2	4383.4	4329.6	4308.6
22.5°	5741.8	5538.4	5325.9	5077.6	4829.2	4601.8	4359.5	4185.9	4036.3	3985.5	3961.5
25°	6023.1	5759.8	5442.6	5119.5	4727.5	4362.5	4033.3	3776.0	3578.5	3512.7	3485.8
27.5°	6334.3	5972.2	5562.3	5110.5	4518.1	4021.4	3584.5	3264.4	3069.9	3010.0	3031.0
30°	6729.2	6247.5	5711.9	5017.7	4203.9	3542.6	3031.0	2761.7	2615.1	2558.2	2561.2
32.5°	7255.8	6642.4	5930.3	4820.3	3800.0	2998.1	2549.3	2351.8	2253.0	2178.2	2172.3
35°	8009.8	7243.9	6133.8	4503.1	3309.3	2513.4	2187.2	2031.6	1894.0	1807.2	1822.2
37.5°	8913.4	8000.9	6244.5	4075.2	2758.7	2136.4	1914.9	1756.4	1600.8	1472.1	1487.1
40°	9984.6	8991.2	6235.5	3512.7	2256.0	1879.0	1687.5	1502.0	1307.5	1190.9	1202.8
42.5°	11178.5	9927.8	6041.0	2917.3	1870.1	1669.6	1469.1	1235.7	1047.2	975.4	978.4
45°	12213.7	10687.7	5699.9	2300.9	1573.8	1466.1	1241.7	1002.4	918.6	867.7	864.7
47.5°	12979.7	11244.3	5212.2	1810.2	1334.5	1280.6	1020.3	897.6	831.8	789.9	783.9
50°	13407.6	11438.8	4673.6	1418.3	1128.0	1086.1	912.6	813.8	769.0	742.0	736.1
52.5°	13982.0	11672.1	4287.7	1119.0	945.5	888.7	840.8	757.0	727.1	706.1	697.2
55°	14891.6	12124.0	3952.6	888.7	786.9	775.0	792.9	724.1	706.1	673.2	661.3
57.5°	14035.9	10891.2	3069.9	688.2	664.2	709.1	766.0	691.2	646.3	616.4	604.4
60°	9876.9	7240.9	1543.9	553.5	592.4	664.2	721.1	625.3	580.5	586.4	580.5
62.5°	5445.6	3623.4	694.2	463.8	514.6	586.4	616.4	541.6	511.6	562.5	571.5
65°	1780.3	1232.7	400.9	359.1	406.9	478.7	532.6	514.6	508.7	568.5	586.4
67.5°	547.6	406.9	272.3	257.3	281.3	353.1	448.8	556.5	598.4	616.4	625.3
70°	409.9	320.2	233.4	218.4	230.4	269.3	380.0	463.8	436.8	439.8	433.9
72.5°	329.1	254.3	200.5	191.5	191.5	185.5	200.5	251.3	284.2	299.2	299.2
75°	230.4	179.5	152.6	140.6	110.7	89.8	80.8	80.8	71.8	68.8	65.8
77.5°	77.8	65.8	59.8	47.9	32.9	26.9	23.9	20.9	15.0	9.0	6.0
80°	12.0	9.0	6.0	6.0	6.0	3.0	3.0	3.0	0.0	0.0	0.0
82.5°	6.0	6.0	6.0	6.0	6.0	3.0	3.0	0.0	0.0	0.0	0.0
85°	6.0	6.0	6.0	6.0	6.0	3.0	3.0	0.0	0.0	0.0	0.0
87.5°	6.0	6.0	6.0	6.0	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)