

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: P643698

Luminaire Tested: GWS-SA6F-740-U-SL3-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P643698
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-32)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SAGF-740-U-SL3-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 29110.3 lumens
Efficiency: N/A
Efficacy: 78.1 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

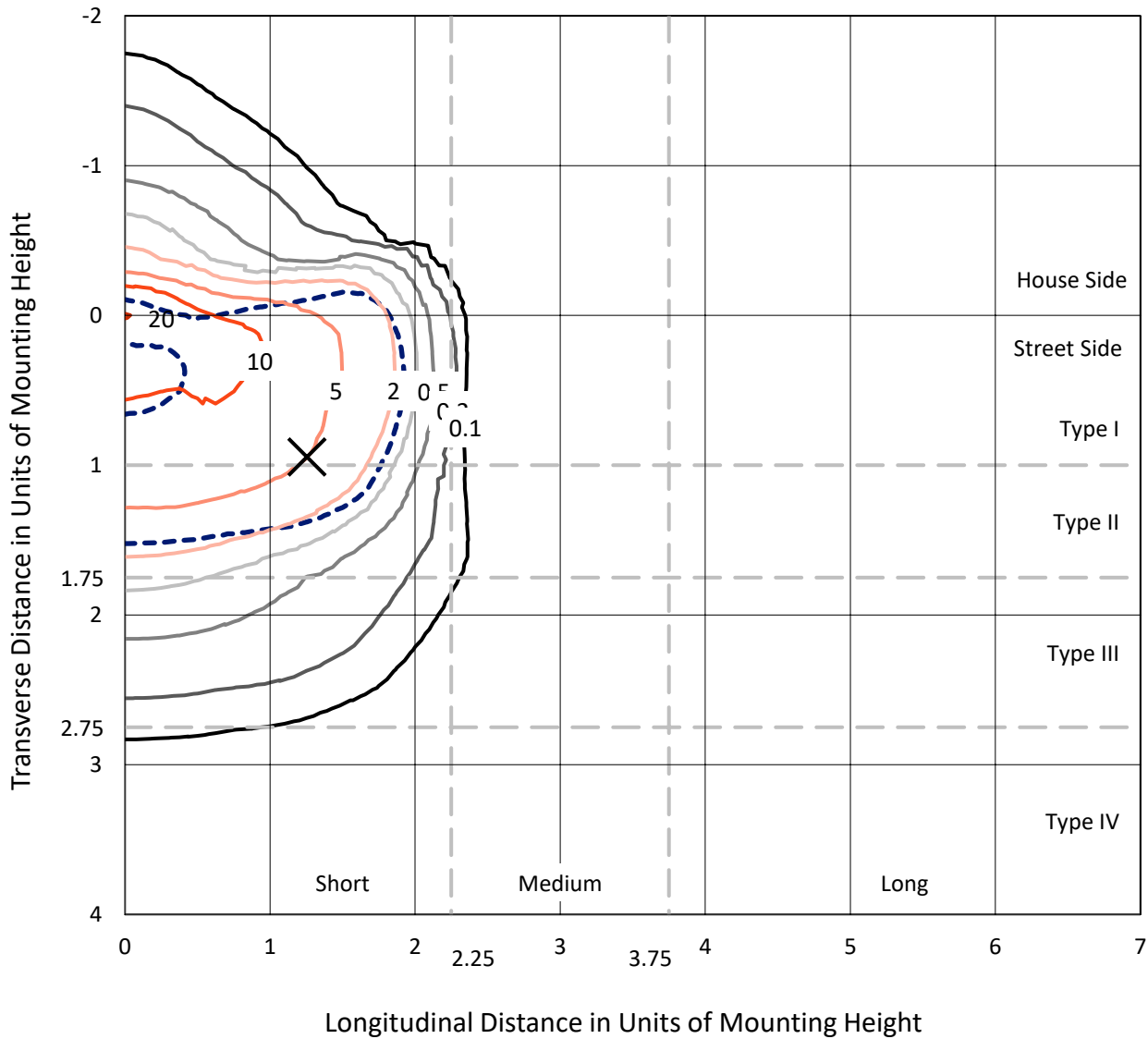
Input Watts (W): 372.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

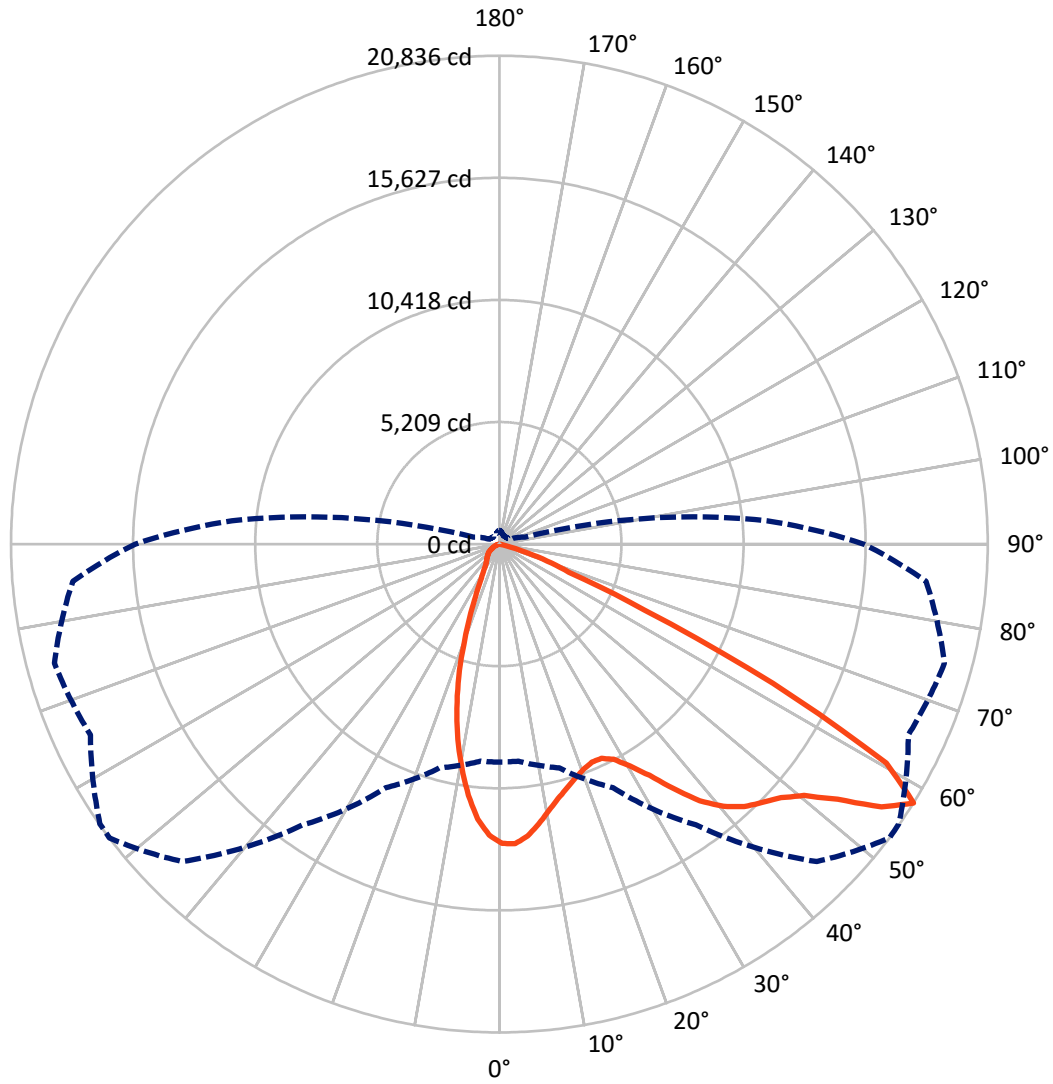
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.4 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 53-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4808.6	0.0	4808.6
	% Fixture	16.5	0.0	16.5
Street Side	Lumens	24301.7	0.0	24301.7
	% Fixture	83.5	0.0	83.5
Total	Lumens	29110.3	0.0	29110.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1092.5	3.8
10°-20°	2398.5	8.2
20°-30°	3124.6	10.7
30°-40°	4532.3	15.6
40°-50°	6539.8	22.5
50°-60°	7909.3	27.2
60°-70°	3223.5	11.1
70°-80°	289.6	1.0
80°-90°	0.0	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°	29110.3	100.0
0°-180°	29110.3	100.0

Coefficient of Utilization



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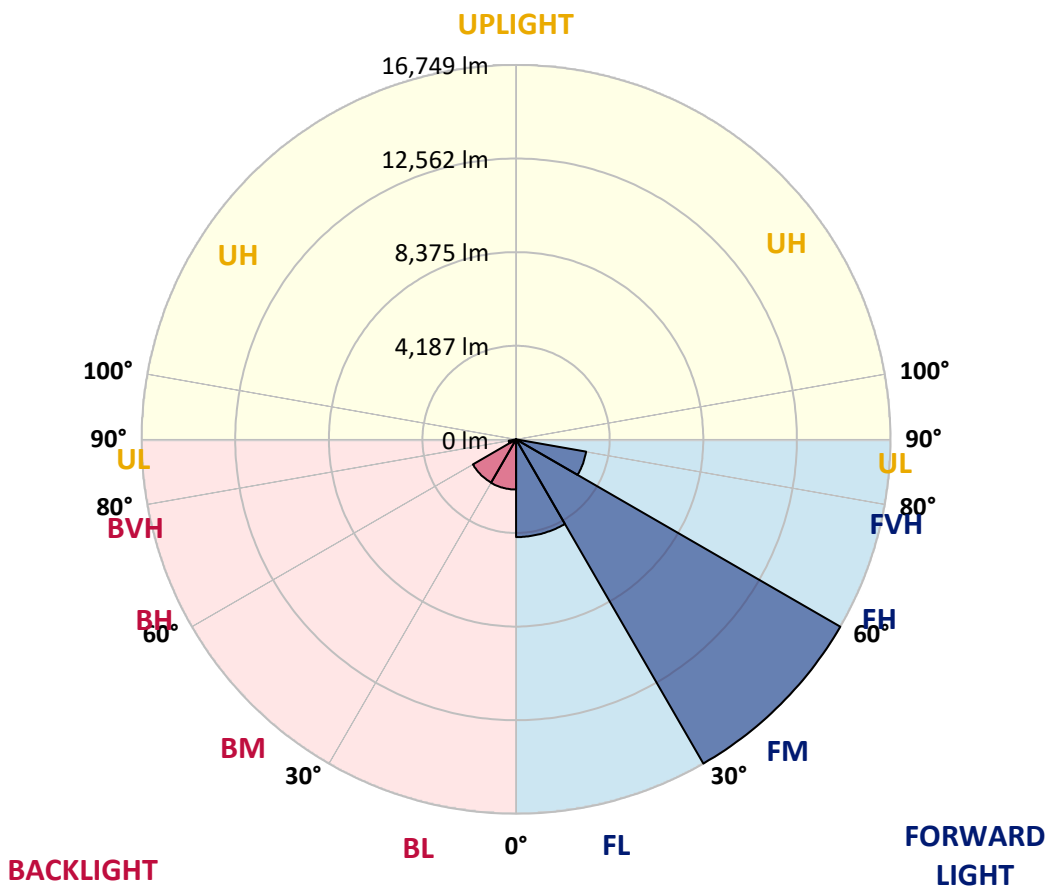
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4371.4	15.0			
FM (30°-60°)	16749.5	57.5			
FH (60°-80°)	3180.8	10.9			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	2244.3	7.7	B3/2500		
BM (30°-60°)	2231.9	7.7	B2/2500		
BH (60°-80°)	332.4	1.1	B1/500		G1/500
BVH (80°-90°)	0.0	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°	53°	55°	65°	75°	85°
0°	12769.4	12769.4	12769.4	12769.4	12769.4	12769.4	12769.4	12769.4	12769.4	12769.4	12769.4
2.5°	12591.0	12619.6	12669.5	12733.8	12776.6	12798.0	12798.0	12858.6	12819.4	12787.3	12751.6
5°	12052.3	12080.8	12148.6	12252.1	12355.6	12430.5	12516.1	12580.3	12605.3	12605.3	12544.7
7.5°	11292.3	11331.6	11374.4	11517.1	11741.9	11909.6	12055.9	12148.6	12284.2	12327.0	12241.4
10°	10475.3	10514.5	10610.9	10807.1	11064.0	11313.7	11563.5	11681.2	11913.1	12034.5	11938.1
12.5°	9783.1	9801.0	9929.4	10164.9	10493.1	10835.6	11138.9	11260.2	11588.5	11770.4	11656.3
15°	9212.3	9223.0	9351.4	9611.9	9990.1	10411.1	10792.8	10917.7	11320.9	11595.6	11424.3
17.5°	8780.5	8784.1	8894.7	9176.6	9572.6	10040.0	10493.1	10646.5	11167.5	11499.3	11242.4
20°	8562.9	8552.2	8630.7	8876.9	9251.5	9718.9	10254.1	10443.2	11081.8	11485.0	11103.2
22.5°	8566.5	8541.5	8573.6	8748.4	9066.0	9504.8	10104.2	10318.3	11089.0	11545.7	10985.5
25°	8769.8	8734.2	8741.3	8834.1	9058.8	9458.4	10125.6	10354.0	11231.7	11749.0	10942.7
27.5°	9112.4	9073.1	9073.1	9119.5	9240.8	9604.7	10393.2	10653.7	11613.4	12145.1	11031.9
30°	9554.8	9515.5	9501.3	9547.6	9647.5	9982.9	10989.1	11260.2	12266.4	12794.4	11317.3
32.5°	10061.4	10015.0	10040.0	10104.2	10200.6	10664.4	11756.2	12116.5	13083.4	13668.5	11831.1
35°	10596.6	10557.4	10671.5	10810.7	10960.5	11609.9	12815.8	13129.8	14086.0	14756.7	12616.0
37.5°	11106.8	11089.0	11328.0	11620.6	11931.0	12744.5	13893.3	14135.9	14945.8	15941.3	13575.8
40°	11617.0	11613.4	12023.8	12537.5	13033.5	13875.5	14710.4	14910.2	15470.3	16861.8	14496.3
42.5°	12187.9	12187.9	12755.2	13440.2	14100.3	14831.7	15309.8	15399.0	15705.8	17393.4	15188.5
45°	12733.8	12765.9	13422.4	14218.0	14999.4	15577.4	15723.6	15730.8	15802.1	17707.4	15762.9
47.5°	13165.5	13194.0	13978.9	14895.9	15737.9	16144.7	16166.1	16133.9	16055.5	18007.1	16205.3
50°	13515.1	13557.9	14378.6	15349.0	16244.6	16690.5	16854.7	16822.5	16622.7	18328.2	16515.7
52.5°	13686.4	13747.0	14517.7	15573.8	16808.3	17625.3	18082.0	18156.9	17471.9	18506.6	16811.8
55°	12316.3	12405.5	13115.5	14560.5	17122.2	19070.3	19787.5	19773.2	18392.4	19038.2	17532.6
57.5°	9301.5	9294.3	9883.0	11463.6	14624.7	19152.4	20836.4	20807.9	19252.3	19655.4	18271.1
60°	6333.0	6290.2	6447.2	7210.7	10225.5	15602.3	18963.3	19348.6	18642.2	18156.9	15513.1
62.5°	5212.7	5173.4	5123.5	4913.0	5872.7	9718.9	13101.2	13686.4	13593.6	12619.6	9729.6
65°	4267.2	4299.3	4438.4	4349.2	4085.2	4984.3	6800.4	7146.5	6532.8	5498.1	3400.2
67.5°	3146.9	3161.1	3343.1	3814.1	3671.3	3318.1	3200.4	3257.5	1908.8	877.7	567.3
70°	1858.9	1869.6	2037.3	2668.8	2979.2	2547.5	2162.1	2130.0	756.4	235.5	256.9
72.5°	1052.5	1031.1	1063.2	1270.2	1623.4	1352.2	1113.2	1013.3	228.3	132.0	132.0
75°	499.5	485.2	417.4	392.5	356.8	228.3	142.7	121.3	57.1	53.5	53.5
77.5°	3.6	10.7	7.1	10.7	10.7	7.1	3.6	3.6	10.7	10.7	14.3
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	12769.4	12769.4	12769.4	12769.4	12769.4	12769.4	12769.4	12769.4	12769.4	12769.4	12769.4
2.5°	12687.4	12580.3	12555.4	12548.2	12448.3	12341.3	12230.7	12187.9	12123.7	12084.4	12116.5
5°	12448.3	12294.9	12159.3	12034.5	11813.2	11570.6	11360.1	11224.5	11096.1	11010.5	11031.9
7.5°	12109.4	11909.6	11599.2	11281.6	10874.9	10511.0	10104.2	9854.5	9622.6	9494.1	9554.8
10°	11749.0	11485.0	10989.1	10450.3	9811.7	9240.8	8659.2	8184.7	7910.0	7649.5	7678.1
12.5°	11395.8	11046.2	10304.0	9487.0	8680.6	7838.6	6960.9	6304.4	5854.9	5530.2	5480.3
15°	11067.6	10618.0	9636.8	8559.3	7460.4	6340.1	5219.8	4281.5	3760.5	3439.4	3418.0
17.5°	10775.0	10218.4	8944.7	7588.9	6211.7	4777.4	3489.4	2786.5	2486.8	2347.7	2333.4
20°	10493.1	9815.2	8238.2	6604.1	4848.7	3353.8	2408.3	2083.6	1987.3	1930.2	1937.4
22.5°	10222.0	9376.4	7496.1	5512.4	3635.7	2354.8	1866.0	1741.1	1730.4	1737.6	1741.1
25°	9993.6	8973.2	6732.6	4459.8	2593.8	1794.6	1559.2	1523.5	1555.6	1602.0	1609.1
27.5°	9875.9	8645.0	5986.9	3400.2	1876.7	1459.3	1352.2	1366.5	1423.6	1473.5	1480.7
30°	9908.0	8398.8	5216.2	2465.4	1445.0	1230.9	1195.2	1223.8	1280.9	1327.3	1334.4
32.5°	10136.3	8273.9	4427.7	1794.6	1188.1	1073.9	1059.7	1081.1	1131.0	1166.7	1170.3
35°	10589.5	8302.5	3678.5	1373.6	1020.4	956.2	952.6	966.9	991.9	1016.8	1020.4
37.5°	11256.7	8534.4	2939.9	1141.7	924.1	877.7	863.4	863.4	881.3	892.0	899.1
40°	11973.8	8884.0	2354.8	1009.7	856.3	806.3	777.8	767.1	781.4	795.6	799.2
42.5°	12566.1	9233.7	1912.4	916.9	802.8	735.0	699.3	692.2	710.0	735.0	742.1
45°	13019.2	9504.8	1594.8	842.0	742.1	667.2	627.9	627.9	660.1	702.9	710.0
47.5°	13433.1	9722.5	1359.4	774.2	685.0	606.5	567.3	574.4	627.9	685.0	695.7
50°	13714.9	9897.3	1184.5	713.6	638.7	556.6	520.9	535.2	599.4	667.2	677.9
52.5°	14018.2	10111.4	1070.4	660.1	595.8	517.3	485.2	495.9	567.3	642.2	656.5
55°	14856.6	10828.5	1066.8	588.7	520.9	463.8	449.6	453.1	524.5	610.1	627.9
57.5°	15541.7	11460.0	1138.2	495.9	435.3	406.7	399.6	403.2	467.4	563.7	585.1
60°	12858.6	8905.4	941.9	410.3	363.9	356.8	346.1	353.2	413.9	499.5	517.3
62.5°	7610.3	5091.4	449.6	314.0	310.4	303.3	292.6	306.8	363.9	438.8	449.6
65°	2601.0	1509.2	285.4	256.9	264.0	253.3	242.6	256.9	306.8	349.7	353.2
67.5°	499.5	399.6	228.3	214.1	217.6	196.2	192.7	206.9	235.5	242.6	239.0
70°	260.5	231.9	174.8	174.8	167.7	139.1	139.1	153.4	153.4	142.7	139.1
72.5°	135.6	128.4	114.2	128.4	107.0	85.6	85.6	92.8	85.6	71.4	71.4
75°	53.5	53.5	50.0	64.2	46.4	39.2	35.7	42.8	32.1	25.0	25.0
77.5°	14.3	14.3	14.3	17.8	10.7	10.7	7.1	7.1	3.6	0.0	0.0
80°	0.0	3.6	0.0	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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)