

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: P643194

Luminaire Tested: GWS-SA6E-740-U-AFL-W-HSS

Issue Date: 1/10/2023

**Test Information**

Test Method: LM-79-2019  
Report Number: P643194  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-48)  
Test Lab: COOPER LIGHTING SOLUTIONS  
Issue Date: 1/10/2023  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: McGRAW-EDISON  
Catalog Number: GWS-SAGE-740-U-AFL-W-HSS  
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND  
AUTOMOTIVE FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: (96) 4000K CCT, 70 CRI LEDS  
Ballast/Driver: -

**Summary**

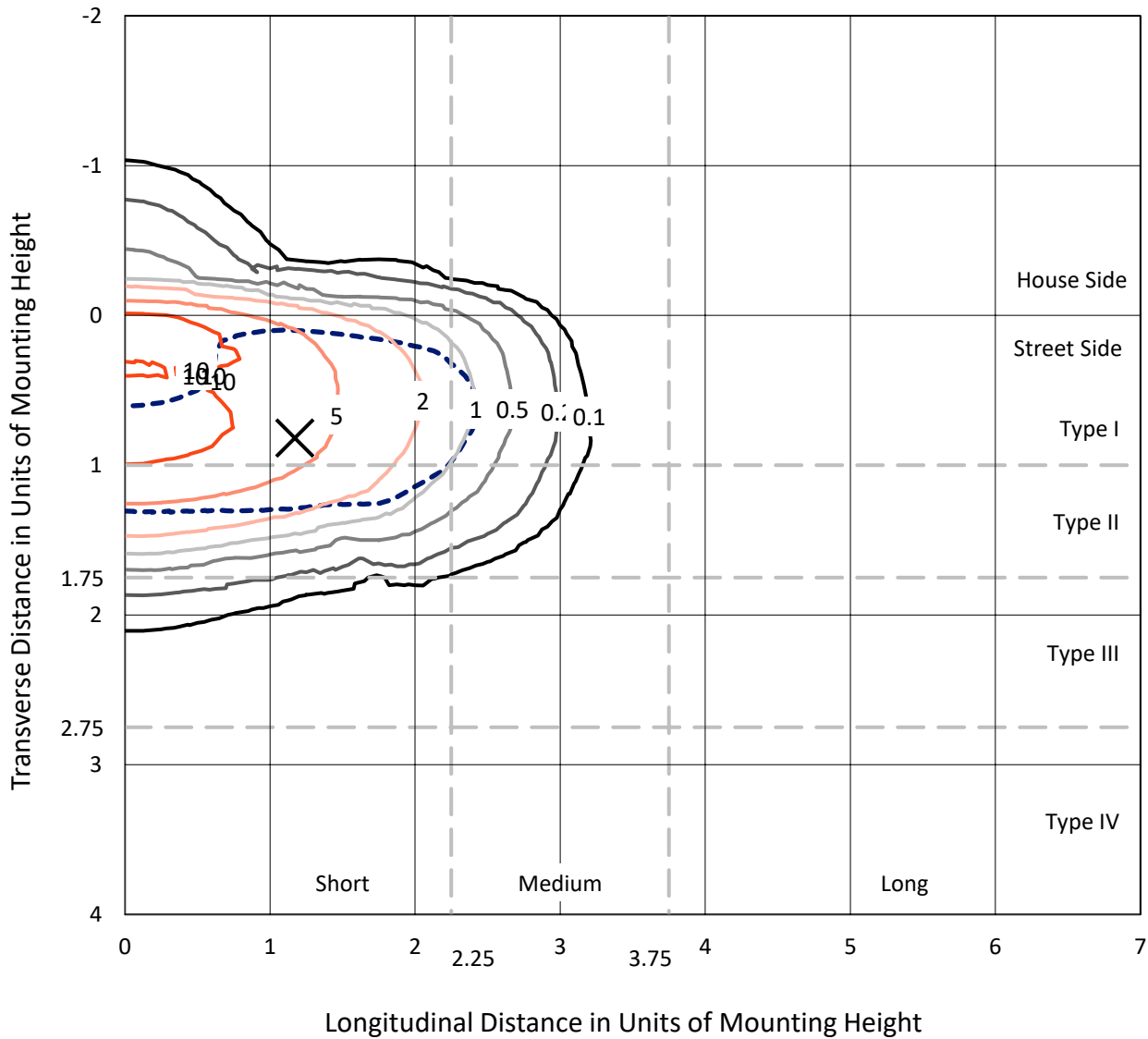
Lumens per Lamp: N/A  
Luminaire Lumens: 37539.4 lumens  
Efficiency: N/A  
Efficacy: 115.9 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G3  
  
Input Watts (W): 323.8  
Input Voltage (V): 120  
Input Current (Ain): NR  
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

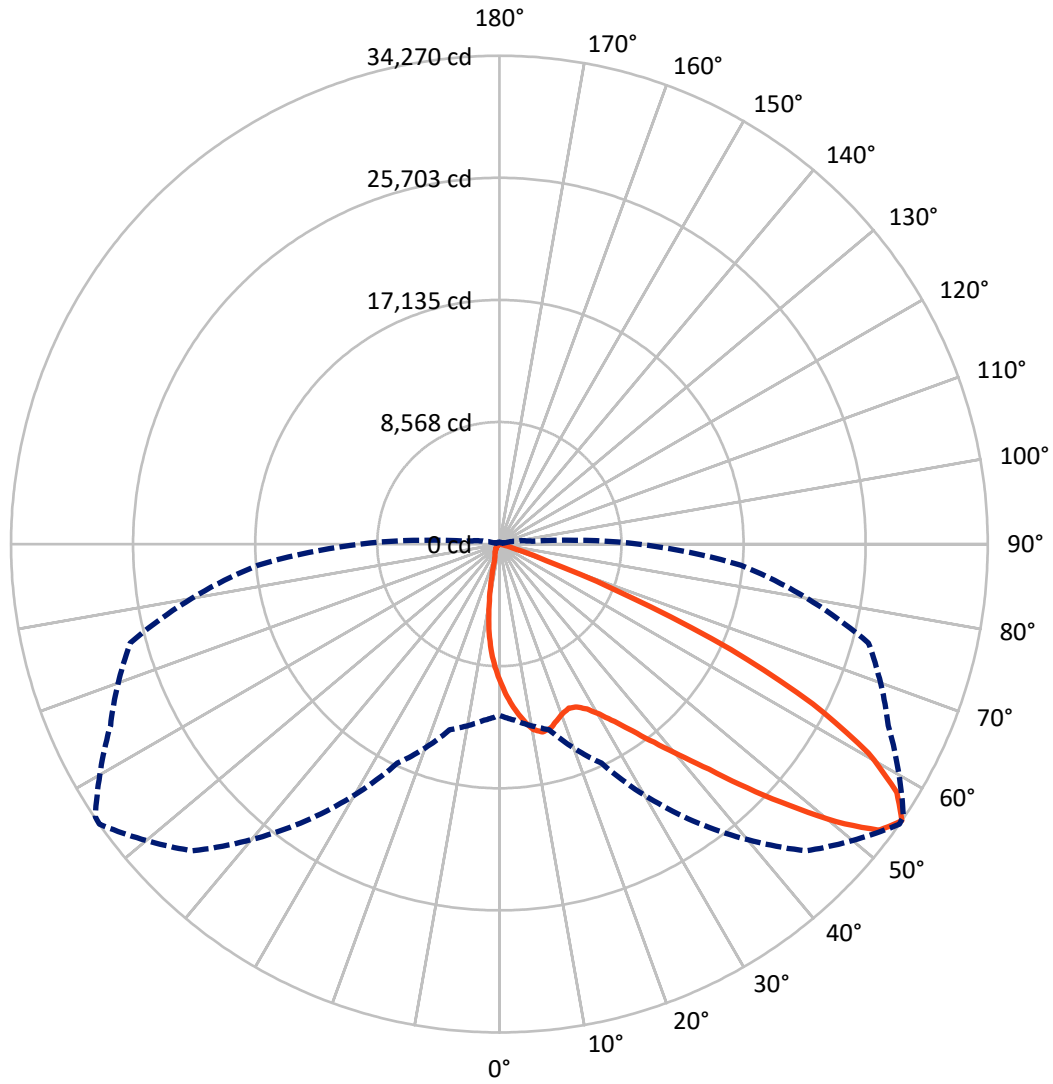
✕ Max cd  
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 14.1 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral    - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2316.3	0.0	2316.3
	% Fixture	6.2	0.0	6.2
<b>Street Side</b>	Lumens	35223.1	0.0	35223.1
	% Fixture	93.8	0.0	93.8
<b>Total</b>	Lumens	37539.4	0.0	37539.4
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	857.1	2.3
10°-20°	2066.3	5.5
20°-30°	3441.2	9.2
30°-40°	5864.0	15.6
40°-50°	9572.1	25.5
50°-60°	10021.5	26.7
60°-70°	5054.6	13.5
70°-80°	638.5	1.7
80°-90°	24.2	0.1
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°	37539.4	100.0
0°-180°	37539.4	100.0

**Coefficient of Utilization**



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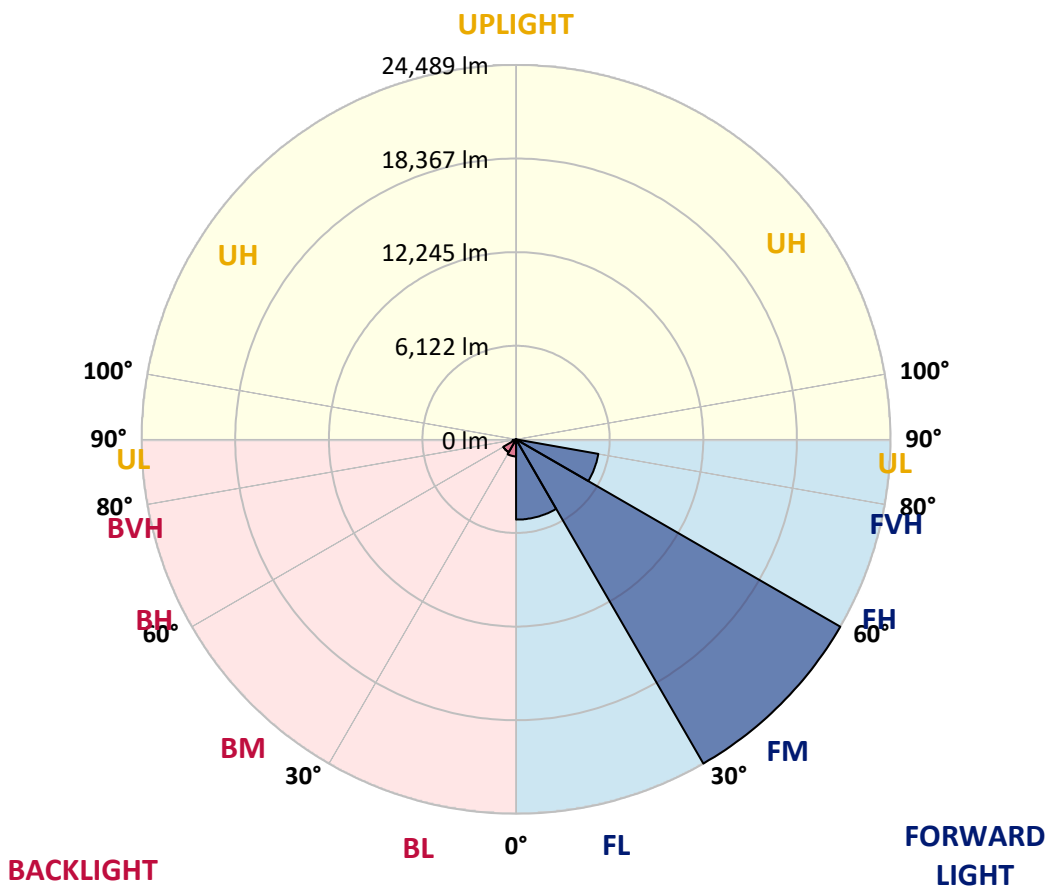
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5251.2	14.0			
FM (30°-60°)	24489.0	65.2			
FH (60°-80°)	5460.7	14.5			G3/7500
FVH (80°-90°)	22.0	0.1			G1/100
BL (0°-30°)	1113.3	3.0	B3/2500		
BM (30°-60°)	968.5	2.6	B1/1000		
BH (60°-80°)	232.3	0.6	B1/500		G1/500
BVH (80°-90°)	2.2	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-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	65°	75°	85°
0°	9698.0	9698.0	9698.0	9698.0	9698.0	9698.0	9698.0	9698.0	9698.0	9698.0	9698.0
2.5°	11305.8	11251.2	11334.6	11238.4	11074.7	10936.7	10757.0	10692.8	10404.0	10131.2	9868.1
5°	12679.3	12695.3	12669.6	12534.9	12303.8	12047.1	11684.4	11604.2	11100.4	10580.5	10018.9
7.5°	13019.4	13009.8	13064.4	13115.7	13077.2	12948.8	12554.1	12473.9	11848.1	11068.3	10250.0
10°	11970.0	11976.5	12088.8	12435.4	12865.4	13311.5	13250.5	13205.6	12592.6	11620.2	10506.7
12.5°	10487.4	10545.2	10663.9	11158.1	11886.6	12900.7	13529.7	13574.6	13276.2	12226.8	10808.3
15°	9845.6	9858.4	9954.7	10253.2	10795.5	12047.1	13410.9	13536.1	13847.4	12836.5	11135.7
17.5°	9829.6	9845.6	9887.3	10018.9	10371.9	11376.4	13029.1	13247.3	14277.4	13491.2	11527.2
20°	10432.9	10423.2	10394.4	10323.8	10477.8	11154.9	12676.1	12916.7	14511.7	14129.8	11921.9
22.5°	11527.2	11514.3	11386.0	11094.0	10968.8	11357.1	12502.8	12721.0	14652.9	14697.8	12246.0
25°	12788.4	12878.2	12637.5	12194.7	11886.6	11873.8	12656.8	12810.8	14774.8	15201.6	12467.5
27.5°	14171.5	14200.4	13995.0	13497.6	13051.5	12701.7	13102.9	13218.4	14909.6	15650.9	12592.6
30°	15689.4	15679.8	15445.5	14867.9	14325.5	13821.7	13853.8	13898.7	15224.1	16164.4	12730.6
32.5°	17586.0	17627.7	17210.5	16424.3	15772.9	15076.5	14835.8	14842.2	15792.1	16825.5	12939.2
35°	20162.9	20060.3	19508.3	18388.3	17277.9	16527.0	16116.2	16080.9	16668.2	17714.4	13301.8
37.5°	22617.9	22627.6	22049.9	20817.6	19415.2	18231.1	17650.2	17553.9	17900.5	18946.7	13905.1
40°	24322.0	24354.1	24113.4	23468.3	21982.5	20307.4	19453.7	19354.2	19498.7	20506.3	14694.6
42.5°	25223.7	25313.6	25381.0	25531.8	24405.4	22900.3	21587.8	21578.2	21427.3	22284.2	15609.2
45°	25259.0	25393.8	25804.6	26834.7	26963.1	25859.1	24431.1	24216.1	23635.2	24187.2	16427.5
47.5°	23863.1	24174.4	25047.2	27088.2	28436.1	28801.9	27386.7	27255.1	25624.9	25692.3	17040.5
50°	20609.0	20933.1	22540.9	25788.5	28808.3	31138.2	30631.1	30358.3	27287.2	26687.1	17335.7
52.5°	17271.5	17566.8	18657.9	22694.9	27264.7	31873.1	33365.3	33041.2	28779.5	27033.7	17213.8
55°	12018.2	12412.9	13478.3	16963.4	23709.0	30441.8	34270.3	34202.9	30111.2	26815.5	17024.4
57.5°	5892.0	6283.5	7345.7	10458.5	17563.6	26578.0	32887.1	33243.3	30907.1	26581.2	16870.4
60°	2461.4	2621.9	2987.7	4589.1	9826.3	20085.9	29764.7	30258.9	30419.3	26263.5	16854.3
62.5°	1428.1	1453.7	1492.2	1903.0	3822.1	11514.3	24691.0	25393.8	27855.2	25843.1	16600.8
65°	1078.3	1087.9	1071.8	1168.1	1578.9	4367.6	17839.5	18795.9	23250.1	24200.0	15599.6
67.5°	885.7	885.7	844.0	863.3	991.6	1636.7	9848.8	11183.8	17204.1	19890.2	12881.4
70°	706.0	722.1	702.8	677.1	709.2	905.0	3504.4	4345.2	10018.9	11745.4	7512.6
72.5°	535.9	535.9	568.0	548.8	526.3	568.0	1222.7	1373.5	4021.0	4897.1	2711.7
75°	414.0	426.8	449.3	430.0	397.9	337.0	587.3	622.6	1213.1	1139.2	606.5
77.5°	211.8	215.0	285.6	314.5	295.2	205.4	256.7	282.4	394.7	353.0	224.6
80°	128.4	134.8	160.5	247.1	195.8	109.1	105.9	112.3	186.1	160.5	93.1
82.5°	54.6	57.8	89.9	89.9	80.2	41.7	41.7	41.7	89.9	83.4	38.5
85°	0.0	0.0	16.0	12.8	12.8	16.0	16.0	16.0	22.5	32.1	19.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.2	9.6	9.6
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°	9698.0	9698.0	9698.0	9698.0	9698.0	9698.0	9698.0	9698.0	9698.0	9698.0	9698.0
2.5°	9698.0	9492.6	9216.6	8966.3	8629.3	8440.0	8176.9	7961.8	7778.9	7721.2	7695.5
5°	9701.2	9348.2	8757.7	8167.2	7442.0	6870.7	6283.5	5818.1	5436.3	5314.3	5282.2
7.5°	9765.4	9245.5	8289.2	7217.3	6004.3	5003.0	4107.7	3305.4	2933.1	2808.0	2782.3
10°	9852.0	9158.8	7746.8	6078.1	4335.5	3048.7	2159.7	1646.3	1402.4	1267.6	1286.9
12.5°	9964.3	9088.2	7146.7	4845.8	2869.0	1675.2	1187.4	994.8	943.5	917.8	905.0
15°	10115.2	9004.8	6402.2	3623.1	1758.6	1078.3	914.6	863.3	844.0	831.2	828.0
17.5°	10269.2	8908.5	5644.9	2548.0	1168.1	895.3	821.5	795.9	783.0	773.4	770.2
20°	10432.9	8744.9	4755.9	1755.4	921.0	805.5	757.4	728.5	712.4	696.4	693.2
22.5°	10503.5	8481.7	3905.5	1229.1	818.3	741.3	680.3	645.0	625.8	612.9	612.9
25°	10436.1	8054.9	3026.2	933.9	744.5	670.7	609.7	571.2	555.2	542.3	542.3
27.5°	10256.4	7506.1	2207.9	773.4	664.3	596.9	539.1	503.8	491.0	484.6	484.6
30°	10057.4	6813.0	1556.4	664.3	574.4	519.9	471.7	449.3	446.1	439.7	439.7
32.5°	9887.3	6164.7	1071.8	584.1	507.0	452.5	420.4	410.8	414.0	407.6	410.8
35°	9794.3	5529.3	795.9	519.9	452.5	401.1	385.1	385.1	385.1	381.9	381.9
37.5°	9832.8	4903.5	648.2	475.0	404.4	365.8	349.8	356.2	362.6	362.6	362.6
40°	10025.3	4348.4	574.4	433.2	362.6	333.7	320.9	330.5	340.2	346.6	346.6
42.5°	10269.2	3899.1	519.9	397.9	333.7	301.7	295.2	304.9	314.5	320.9	320.9
45°	10423.2	3446.6	465.3	353.0	304.9	266.4	266.4	279.2	276.0	279.2	279.2
47.5°	10493.8	3087.2	410.8	304.9	259.9	231.1	234.3	240.7	234.3	240.7	240.7
50°	10320.6	2724.5	362.6	253.5	215.0	202.2	208.6	205.4	205.4	218.2	218.2
52.5°	10002.8	2455.0	320.9	215.0	182.9	179.7	186.1	173.3	176.5	176.5	173.3
55°	9768.6	2300.9	285.6	186.1	157.2	160.5	157.2	134.8	121.9	109.1	105.9
57.5°	9653.1	2240.0	259.9	166.9	141.2	141.2	128.4	93.1	70.6	54.6	48.1
60°	9627.4	2166.2	234.3	144.4	125.2	118.7	93.1	54.6	35.3	25.7	22.5
62.5°	9383.5	1986.4	211.8	115.5	109.1	96.3	57.8	32.1	19.3	12.8	9.6
65°	8584.4	1633.4	189.3	89.9	83.4	70.6	35.3	19.3	9.6	3.2	0.0
67.5°	6829.0	1158.5	166.9	67.4	57.8	44.9	22.5	12.8	3.2	0.0	0.0
70°	3937.6	625.8	138.0	48.1	38.5	28.9	16.0	6.4	0.0	0.0	0.0
72.5°	1315.7	292.0	105.9	32.1	28.9	22.5	9.6	3.2	0.0	0.0	0.0
75°	288.8	173.3	70.6	22.5	19.3	16.0	6.4	0.0	0.0	0.0	0.0
77.5°	109.1	121.9	35.3	16.0	12.8	9.6	3.2	0.0	0.0	0.0	0.0
80°	41.7	80.2	16.0	9.6	9.6	3.2	0.0	0.0	0.0	0.0	0.0
82.5°	22.5	32.1	9.6	6.4	6.4	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.8	16.0	6.4	3.2	3.2	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	3.2	3.2	3.2	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)