

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: P642649

Luminaire Tested: GWS-SA6D-735-U-SL2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P642649
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-28)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA6D-735-U-SL2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (6) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL LIGHT ELIMINATOR OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (96) 3500K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20745.8 lumens
Efficiency: N/A
Efficacy: 84.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G2

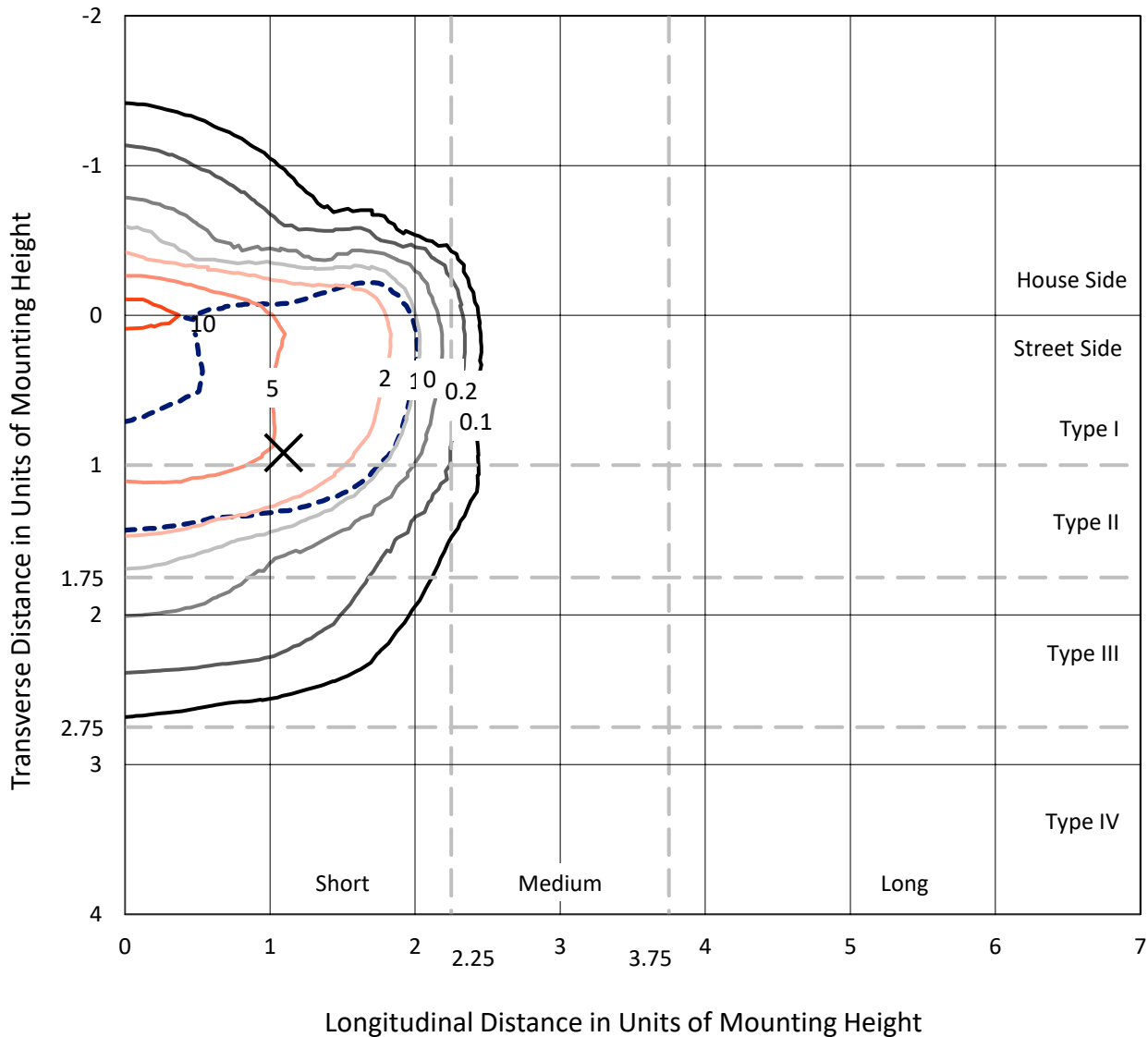
Input Watts (W): 245.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

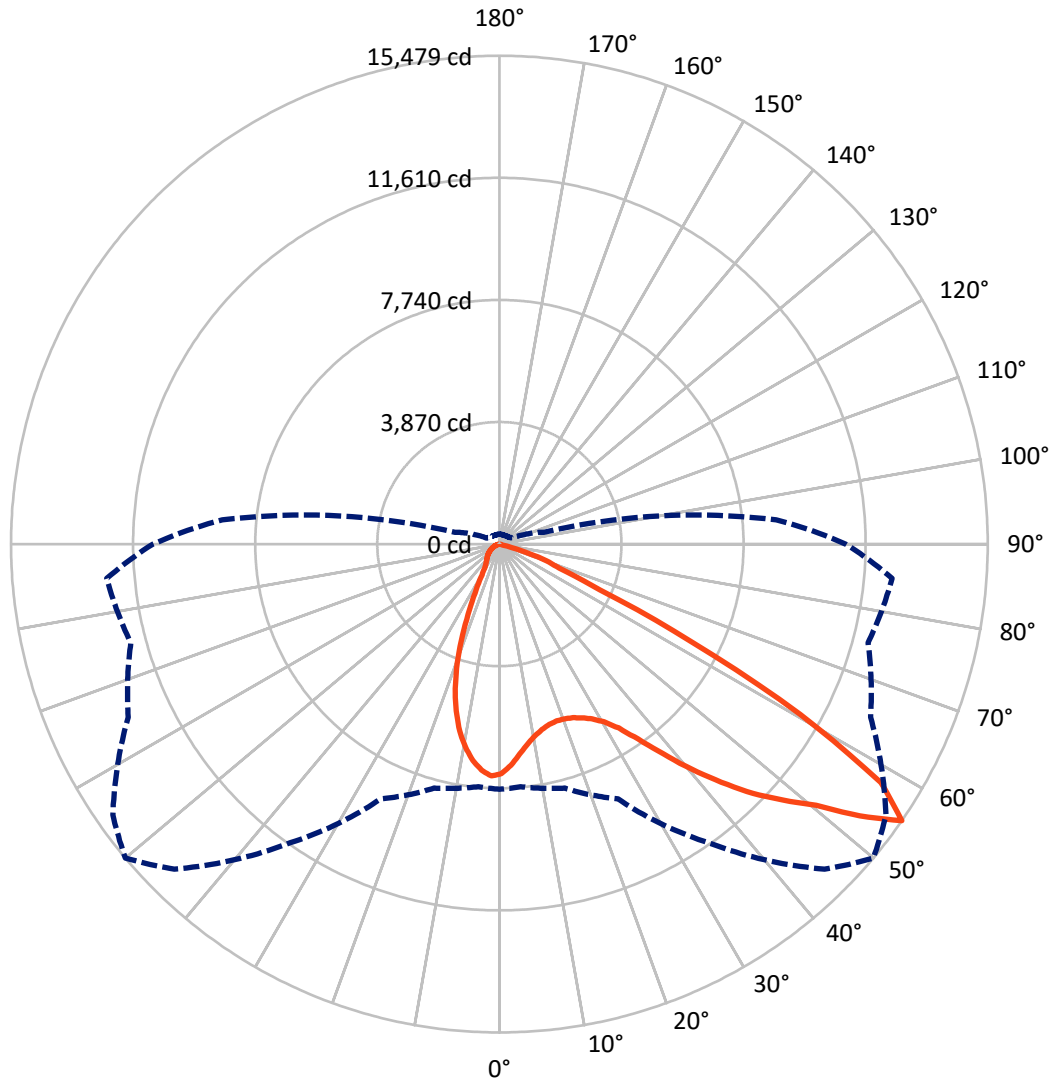
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4087.9	0.0	4087.9
	% Fixture	19.7	0.0	19.7
Street Side	Lumens	16657.9	0.0	16657.9
	% Fixture	80.3	0.0	80.3
Total	Lumens	20745.8	0.0	20745.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	639.2	3.1
10°-20°	1573.0	7.6
20°-30°	2218.8	10.7
30°-40°	3283.4	15.8
40°-50°	4736.9	22.8
50°-60°	5587.5	26.9
60°-70°	2492.5	12.0
70°-80°	214.3	1.0
80°-90°	0.1	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°	20745.8	100.0
0°-180°	20745.8	100.0

Coefficient of Utilization



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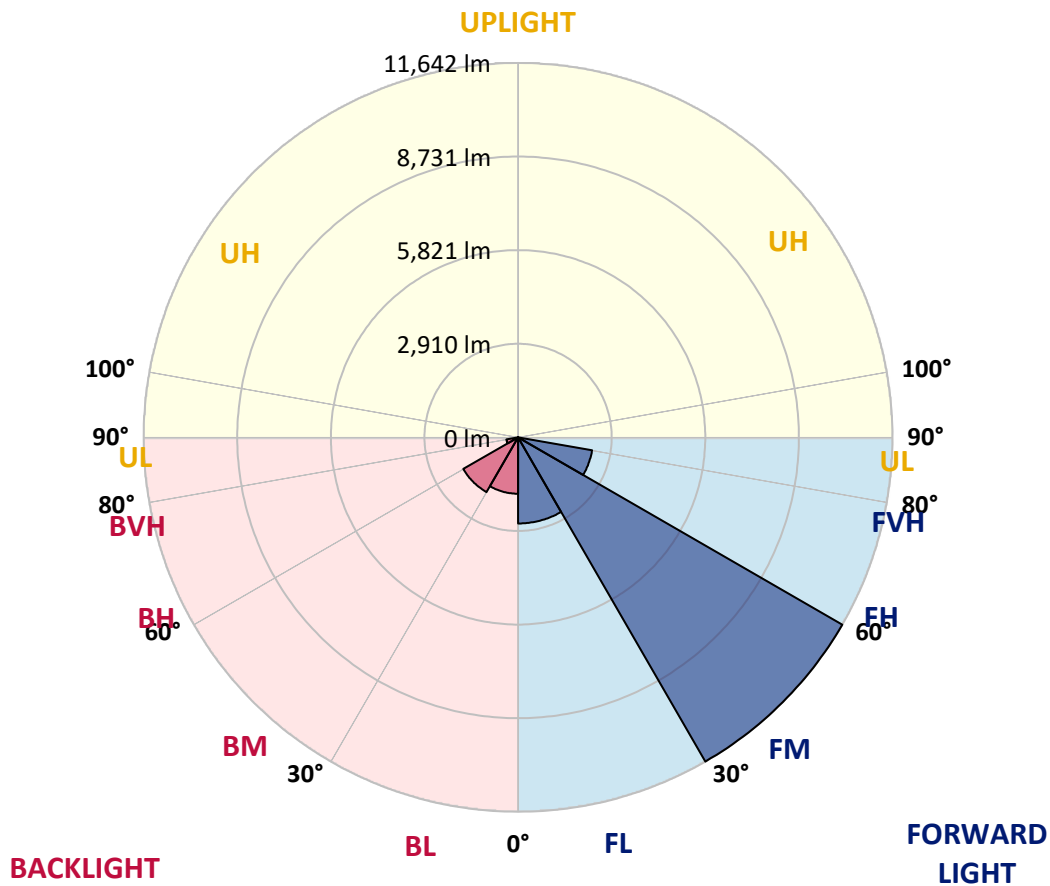
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2678.4	12.9			
FM (30°-60°)	11641.9	56.1			
FH (60°-80°)	2337.7	11.3			G2/5000
FVH (80°-90°)	0.0	0.0			G0/10
BL (0°-30°)	1752.7	8.4	B3/2500		
BM (30°-60°)	1966.0	9.5	B2/2500		
BH (60°-80°)	369.1	1.8	B1/500		G1/500
BVH (80°-90°)	0.1	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°	50°	55°	65°	75°	85°
0°	7278.8	7278.8	7278.8	7278.8	7278.8	7278.8	7278.8	7278.8	7278.8	7278.8	7278.8
2.5°	6762.1	6767.2	6769.7	6838.1	6863.4	6964.7	7017.9	7045.8	7119.2	7205.3	7276.2
5°	6308.8	6301.2	6313.8	6400.0	6455.7	6605.1	6686.1	6741.9	6904.0	7106.6	7276.2
7.5°	5913.7	5928.9	5944.1	6037.8	6121.4	6283.5	6400.0	6483.5	6708.9	7010.3	7296.5
10°	5635.1	5635.1	5657.9	5764.3	5863.0	6063.1	6179.6	6286.0	6554.4	6924.2	7319.3
12.5°	5430.0	5432.5	5460.4	5581.9	5695.9	5903.6	6025.1	6129.0	6425.3	6838.1	7324.4
15°	5333.7	5326.1	5348.9	5478.1	5604.7	5799.7	5926.4	6027.7	6334.1	6790.0	7349.7
17.5°	5308.4	5303.3	5321.1	5447.7	5576.9	5766.8	5890.9	5992.2	6321.4	6805.2	7425.7
20°	5381.8	5371.7	5364.1	5473.0	5594.6	5782.0	5911.2	6025.1	6382.2	6888.8	7542.2
22.5°	5556.6	5556.6	5538.9	5592.0	5673.1	5842.8	5977.0	6126.4	6541.8	7055.9	7714.4
25°	5878.2	5852.9	5820.0	5842.8	5832.6	5939.0	6098.6	6306.3	6843.2	7332.0	7924.6
27.5°	6245.5	6268.3	6212.5	6215.1	6126.4	6088.4	6273.3	6587.4	7291.4	7722.0	8236.1
30°	6744.4	6726.7	6729.2	6721.6	6516.5	6336.6	6536.7	6954.6	7856.2	8317.2	8641.3
32.5°	7134.4	7159.7	7243.3	7291.4	7023.0	6734.3	6947.0	7453.5	8499.5	8995.9	9137.7
35°	7547.2	7592.8	7762.5	7919.5	7694.1	7362.4	7590.3	8114.5	9104.8	9667.1	9707.6
37.5°	7982.9	8074.0	8276.6	8552.7	8517.2	8223.5	8431.1	8892.1	9580.9	10072.3	10178.6
40°	8481.8	8570.4	8902.2	9299.8	9383.4	9317.5	9385.9	9654.4	9895.0	10090.0	10381.3
42.5°	9028.8	9150.4	9570.8	10102.7	10416.7	10475.0	10315.4	10287.5	10031.7	9887.4	10338.2
45°	9674.6	9816.5	10292.6	10981.5	11480.4	11558.9	11282.9	10925.8	10117.9	9738.0	10209.0
47.5°	10399.0	10533.2	11006.8	11835.0	12577.0	12607.4	12126.2	11551.3	10373.7	9910.2	10307.8
50°	10642.1	10725.7	11136.0	12108.5	13476.1	13709.1	13012.7	12255.4	10887.8	10416.7	10789.0
52.5°	9806.3	9839.3	10196.4	11179.0	13293.8	14790.6	14306.8	13306.4	11802.1	11189.2	11531.1
55°	7770.1	7716.9	8005.6	8907.3	11553.9	14570.2	15479.4	14957.7	12979.7	12095.8	12496.0
57.5°	5435.0	5371.7	5305.9	5916.2	8621.1	12351.6	14263.8	15188.2	14101.7	12994.9	13536.9
60°	4467.6	4406.8	4087.7	3806.5	5212.2	8869.3	10956.2	12696.1	14010.5	12949.3	13504.0
62.5°	3859.7	3824.3	3695.1	3312.7	3067.0	5062.7	6860.9	8527.4	10751.0	10168.5	10198.9
65°	3031.6	3021.4	3110.1	3150.6	2712.4	2801.1	3500.1	4432.1	5812.4	5480.6	5197.0
67.5°	2071.7	2048.9	2216.1	2725.1	2608.6	2211.0	2048.9	2066.6	2514.9	1537.3	1220.7
70°	1317.0	1263.8	1266.3	1689.3	2122.3	1745.0	1580.4	1390.4	1251.1	227.9	258.3
72.5°	843.4	810.4	696.5	762.3	982.7	851.0	858.6	739.5	493.9	121.6	141.8
75°	354.6	326.7	250.7	200.1	197.5	124.1	108.9	101.3	68.4	68.4	73.4
77.5°	2.5	0.0	0.0	2.5	5.1	2.5	2.5	5.1	10.1	15.2	17.7
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	2.5
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°	7278.8	7278.8	7278.8	7278.8	7278.8	7278.8	7278.8	7278.8	7278.8	7278.8	7278.8
2.5°	7319.3	7258.5	7326.9	7352.2	7349.7	7352.2	7278.8	7228.1	7225.6	7162.3	7131.9
5°	7347.2	7299.0	7349.7	7316.8	7238.3	7139.5	7007.8	6893.8	6843.2	6769.7	6734.3
7.5°	7400.3	7349.7	7342.1	7210.4	7015.4	6807.7	6574.7	6367.0	6255.6	6121.4	6129.0
10°	7438.3	7380.1	7281.3	7012.9	6688.7	6356.9	6009.9	5701.0	5505.9	5326.1	5295.7
12.5°	7453.5	7367.4	7137.0	6731.7	6275.9	5842.8	5333.7	4893.0	4589.1	4353.6	4320.7
15°	7481.4	7342.1	6952.1	6392.4	5766.8	5153.9	4505.5	3902.8	3500.1	3229.1	3251.9
17.5°	7524.4	7314.2	6744.4	6012.5	5219.8	4353.6	3477.3	2785.9	2416.1	2259.1	2261.6
20°	7585.2	7281.3	6516.5	5594.6	4563.8	3449.4	2431.3	1909.6	1805.8	1800.7	1793.1
22.5°	7666.3	7248.4	6273.3	5136.2	3786.3	2416.1	1618.4	1456.3	1499.3	1582.9	1598.1
25°	7762.5	7207.9	6002.3	4619.5	2937.9	1585.4	1213.1	1187.8	1291.6	1403.1	1428.4
27.5°	7911.9	7187.6	5693.4	4031.9	2061.6	1137.2	992.8	1008.0	1101.7	1195.4	1218.2
30°	8165.2	7225.6	5356.5	3373.5	1324.6	906.7	861.1	883.9	934.5	982.7	1002.9
32.5°	8509.6	7337.0	5029.8	2654.2	944.7	787.6	777.5	790.2	810.4	838.3	845.9
35°	8912.3	7529.5	4693.0	1899.5	780.1	719.3	709.1	709.1	719.3	724.3	726.9
37.5°	9244.1	7732.1	4376.4	1263.8	699.0	666.1	650.9	643.3	640.8	645.8	648.4
40°	9388.5	7815.7	4031.9	919.3	640.8	618.0	595.2	572.4	572.4	590.1	592.6
42.5°	9287.2	7722.0	3634.3	759.8	600.2	567.3	531.9	511.6	521.7	539.5	544.5
45°	9071.9	7491.5	3196.2	671.1	559.7	516.7	476.1	463.5	473.6	496.4	501.5
47.5°	9036.4	7339.6	2671.9	612.9	516.7	473.6	430.5	417.9	430.5	448.3	453.3
50°	9388.5	7471.3	2089.4	562.2	476.1	428.0	392.6	379.9	387.5	397.6	402.7
52.5°	10031.7	7960.1	1686.7	514.1	428.0	382.4	359.6	344.4	344.4	354.6	357.1
55°	10981.5	8813.6	1456.3	458.4	372.3	347.0	326.7	311.5	311.5	316.6	319.1
57.5°	12075.6	9846.9	1509.4	385.0	326.7	314.0	296.3	283.7	288.7	288.7	288.7
60°	11923.6	9770.9	1615.8	324.2	288.7	283.7	268.5	263.4	276.1	265.9	260.9
62.5°	8783.2	6749.5	845.9	265.9	248.2	243.1	233.0	243.1	260.9	233.0	222.9
65°	4264.9	3267.1	339.4	217.8	210.2	205.1	200.1	215.3	225.4	182.3	172.2
67.5°	1002.9	815.5	220.3	184.9	174.8	164.6	169.7	172.2	164.6	124.1	119.0
70°	260.9	255.8	172.2	154.5	139.3	129.2	129.2	126.6	108.9	78.5	73.4
72.5°	141.8	139.3	124.1	116.5	96.2	86.1	88.6	78.5	60.8	45.6	43.1
75°	70.9	76.0	70.9	65.8	53.2	48.1	48.1	43.1	30.4	17.7	17.7
77.5°	15.2	17.7	17.7	15.2	12.7	10.1	10.1	12.7	5.1	0.0	0.0
80°	2.5	2.5	2.5	2.5	2.5	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)