

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: P635793

Luminaire Tested: GWS-SA3E-740-U-T2-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P635793
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-20)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA3E-740-U-T2-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (48) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13063 lumens
Efficiency: N/A
Efficacy: 82.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G1

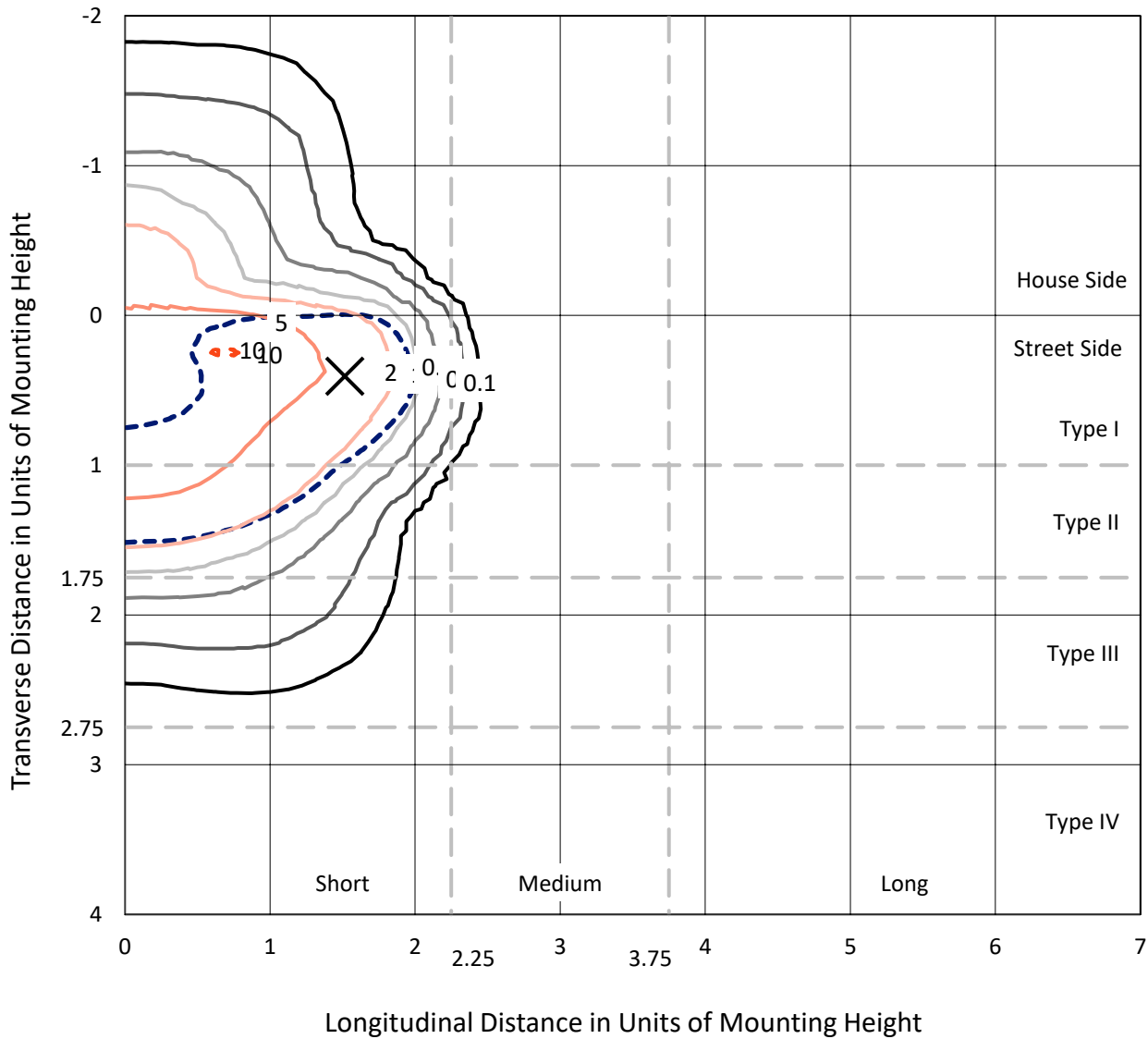
Input Watts (W): 159.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

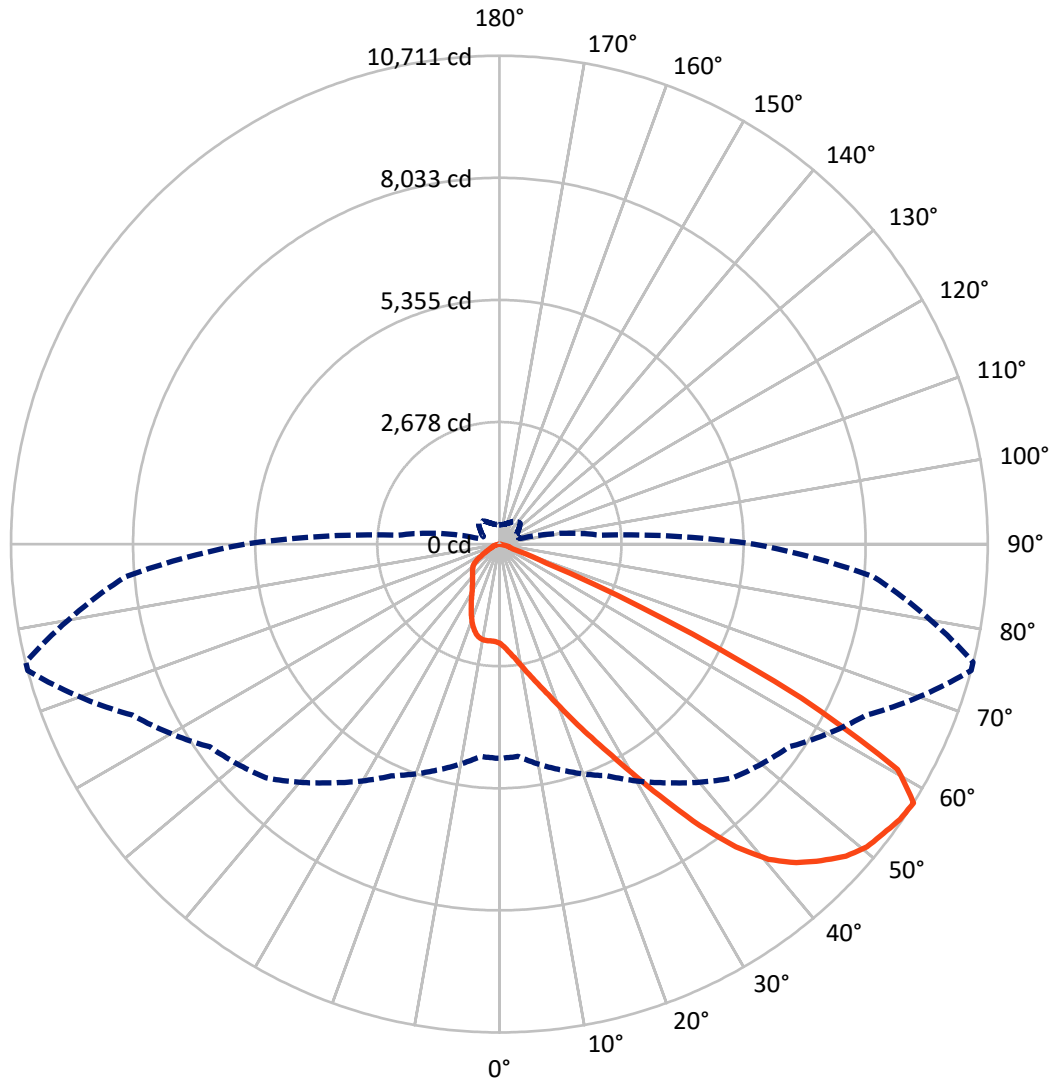
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 10.2 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2133.8	0.0	2133.8
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	10929.2	0.0	10929.2
	% Fixture	83.7	0.0	83.7
Total	Lumens	13063.0	0.0	13063.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	221.7	1.7
10°-20°	720.2	5.5
20°-30°	1318.8	10.1
30°-40°	2188.1	16.8
40°-50°	3341.7	25.6
50°-60°	3755.0	28.7
60°-70°	1385.0	10.6
70°-80°	132.4	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°	13063.0	100.0
0°-180°	13063.0	100.0

Coefficient of Utilization



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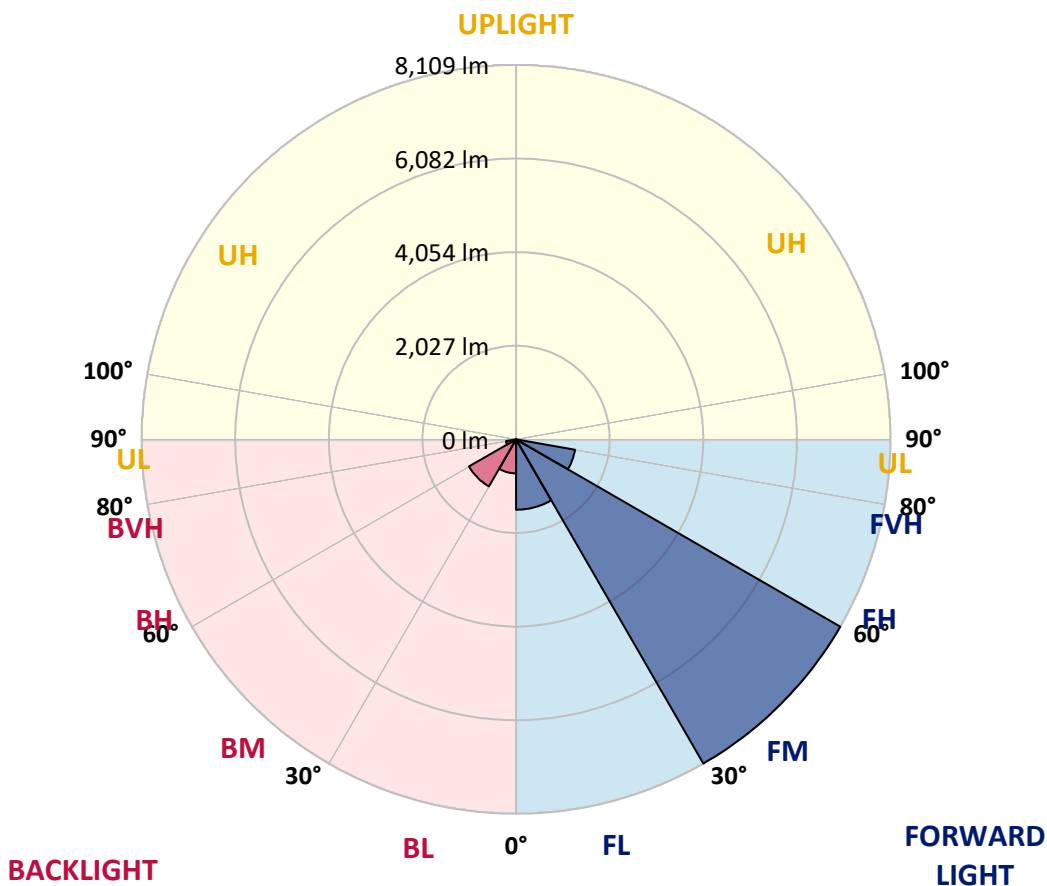
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1524.4	11.7			
FM (30°-60°)	8108.9	62.1			
FH (60°-80°)	1295.8	9.9			G1/1800
FVH (80°-90°)	0.1	0.0			G0/10
BL (0°-30°)	736.3	5.6	B2/1000		
BM (30°-60°)	1175.9	9.0	B2/2500		
BH (60°-80°)	221.6	1.7	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: B2-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	2178.7	2178.7	2178.7	2178.7	2178.7	2178.7	2178.7	2178.7	2178.7	2178.7	2178.7
2.5°	2434.1	2459.3	2451.5	2435.7	2426.2	2393.1	2372.6	2312.7	2270.2	2265.4	2226.0
5°	2741.5	2736.8	2730.5	2711.6	2695.8	2643.8	2582.3	2481.4	2391.6	2380.5	2297.0
7.5°	2910.2	2913.4	2916.5	2913.4	2902.3	2862.9	2795.1	2676.9	2539.7	2530.3	2397.9
10°	2979.6	2985.9	3001.7	3031.6	3058.4	3055.3	3015.8	2894.5	2725.8	2710.0	2531.9
12.5°	3012.7	3020.6	3045.8	3102.6	3175.1	3231.8	3238.1	3129.4	2943.3	2918.1	2691.1
15°	3058.4	3066.3	3097.8	3171.9	3277.5	3389.5	3462.0	3392.6	3184.5	3157.7	2866.1
17.5°	3078.9	3089.9	3135.7	3233.4	3370.6	3542.4	3706.4	3700.1	3469.9	3449.4	3069.5
20°	3118.3	3126.2	3167.2	3272.8	3438.4	3685.9	3961.8	4061.1	3818.3	3788.3	3315.4
22.5°	3242.9	3246.0	3264.9	3331.1	3485.6	3789.9	4221.9	4482.0	4229.8	4190.3	3591.3
25°	3446.2	3444.7	3452.5	3463.6	3577.1	3895.5	4472.5	4956.5	4701.1	4658.6	3903.4
27.5°	3704.8	3704.8	3723.7	3692.2	3737.9	4026.4	4720.0	5502.0	5249.8	5189.8	4245.5
30°	4009.0	4007.5	4051.6	4001.2	4015.4	4232.9	4986.5	6096.3	5911.9	5837.8	4639.6
32.5°	4422.1	4412.6	4463.1	4393.7	4346.4	4545.1	5311.2	6717.5	6704.9	6591.4	5134.7
35°	4943.9	4928.1	4943.9	4876.1	4791.0	4981.7	5736.9	7337.0	7584.6	7464.7	5724.3
37.5°	5462.6	5513.0	5530.4	5413.7	5344.3	5535.1	6249.3	7892.0	8424.8	8300.3	6337.5
40°	6074.3	6058.5	6118.4	5987.6	5943.4	6154.7	6750.6	8305.0	9090.1	8971.9	6883.0
42.5°	6525.1	6553.5	6627.6	6555.1	6520.4	6719.1	7171.5	8546.2	9552.0	9435.4	7272.4
45°	7065.9	7086.4	7114.8	7054.8	7018.6	7214.1	7475.8	8651.8	9903.6	9777.5	7534.1
47.5°	7650.8	7666.5	7666.5	7543.6	7426.9	7507.3	7679.1	8711.8	10226.8	10105.4	7728.0
50°	8070.1	8078.0	8147.4	8060.7	7806.8	7682.3	7772.2	8770.1	10441.2	10327.7	7791.1
52.5°	7698.1	7688.6	7917.2	8096.9	8164.7	7917.2	7933.0	8855.2	10545.2	10447.5	7841.5
55°	6482.6	6466.8	6788.4	7225.1	7822.6	8139.5	8126.9	8905.7	10660.3	10600.4	8024.4
57.5°	4699.6	4672.8	5120.5	5606.0	6389.6	7248.8	7753.2	8877.3	10710.8	10706.0	8237.2
60°	2825.1	2803.0	3225.5	3736.3	4341.7	5205.6	6042.7	7951.9	10036.0	10045.5	7683.9
62.5°	1738.9	1759.4	2140.9	2401.0	2626.5	2886.6	3370.6	5349.1	7434.8	7496.3	5399.5
65°	1169.8	1185.5	1538.7	1866.6	1866.6	1526.1	1310.1	2557.1	3966.5	3862.4	2553.9
67.5°	785.1	802.4	1081.5	1464.6	1519.7	1064.1	531.3	763.0	1105.1	1072.0	632.2
70°	461.9	480.8	720.5	1004.2	1106.7	741.0	354.7	323.2	313.7	304.3	245.9
72.5°	206.5	214.4	367.3	510.8	466.6	312.1	250.7	258.5	244.4	239.6	200.2
75°	63.1	66.2	94.6	110.4	111.9	111.9	151.3	203.4	192.3	193.9	154.5
77.5°	15.8	15.8	25.2	23.6	12.6	11.0	28.4	45.7	47.3	42.6	31.5
80°	0.0	0.0	0.0	0.0	0.0	1.6	1.6	1.6	1.6	1.6	1.6
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°	2178.7	2178.7	2178.7	2178.7	2178.7	2178.7	2178.7	2178.7	2178.7	2178.7	2178.7
2.5°	2208.7	2167.7	2140.9	2103.1	2076.3	2047.9	2022.7	2002.2	1991.1	1988.0	1989.5
5°	2259.1	2194.5	2131.4	2058.9	2008.5	1961.2	1923.3	1893.4	1879.2	1874.5	1874.5
7.5°	2336.4	2246.5	2134.6	2021.1	1935.9	1861.8	1817.7	1784.6	1772.0	1768.8	1759.4
10°	2437.3	2314.3	2129.9	1953.3	1833.5	1756.2	1724.7	1715.2	1720.0	1721.5	1720.0
12.5°	2558.7	2385.2	2099.9	1854.0	1724.7	1677.4	1680.6	1705.8	1734.2	1748.3	1751.5
15°	2687.9	2449.9	2032.1	1735.7	1631.7	1630.1	1675.8	1734.2	1789.3	1813.0	1819.3
17.5°	2833.0	2501.9	1928.1	1609.6	1551.3	1597.0	1679.0	1768.8	1842.9	1882.3	1890.2
20°	2992.2	2544.5	1795.6	1491.4	1480.3	1562.3	1675.8	1786.2	1877.6	1921.8	1929.6
22.5°	3157.7	2574.4	1642.7	1382.6	1415.7	1522.9	1645.9	1753.1	1839.8	1890.2	1896.5
25°	3346.9	2577.6	1486.6	1291.2	1355.8	1469.3	1573.3	1661.6	1734.2	1778.3	1783.0
27.5°	3512.4	2539.7	1347.9	1217.1	1300.6	1403.1	1472.5	1521.3	1571.8	1597.0	1598.6
30°	3703.2	2473.5	1217.1	1157.2	1243.9	1321.1	1355.8	1366.8	1371.6	1376.3	1370.0
32.5°	3930.2	2393.1	1119.3	1098.8	1179.2	1231.2	1240.7	1218.6	1191.8	1154.0	1144.5
35°	4209.3	2320.6	1038.9	1042.1	1108.3	1139.8	1131.9	1084.6	1032.6	986.9	979.0
37.5°	4512.0	2259.1	977.4	986.9	1031.0	1053.1	1029.5	977.4	953.8	914.4	915.9
40°	4780.0	2208.7	922.3	931.7	952.2	972.7	934.9	900.2	944.3	941.2	944.3
42.5°	4970.7	2166.1	875.0	870.2	884.4	898.6	870.2	852.9	927.0	906.5	917.5
45°	5082.6	2126.7	835.5	807.2	829.2	854.5	835.5	813.5	838.7	744.1	736.2
47.5°	5158.3	2104.6	800.9	745.7	785.1	829.2	789.8	736.2	700.0	618.0	611.7
50°	5166.2	2093.6	759.9	682.6	733.1	780.4	734.7	660.6	608.5	572.3	567.5
52.5°	5207.2	2115.7	703.1	602.2	657.4	733.1	701.5	627.4	556.5	525.0	518.7
55°	5390.1	2208.7	608.5	491.9	572.3	696.8	674.7	559.7	491.9	473.0	468.2
57.5°	5579.2	2227.6	479.3	389.4	498.2	644.8	616.4	515.5	449.3	427.2	422.5
60°	5101.6	1835.0	359.4	321.6	439.8	595.9	570.7	488.7	411.5	384.7	379.9
62.5°	3351.6	991.6	285.3	272.7	370.5	504.5	520.2	441.4	367.3	338.9	337.4
65°	1545.0	460.3	219.1	216.0	290.1	402.0	447.7	386.2	310.6	285.3	285.3
67.5°	420.9	228.6	171.8	159.2	197.1	269.6	326.3	288.5	220.7	190.8	189.2
70°	209.7	184.5	154.5	137.2	141.9	167.1	192.3	160.8	111.9	91.4	89.9
72.5°	171.8	151.3	130.8	116.7	107.2	102.5	99.3	80.4	52.0	39.4	37.8
75°	127.7	108.8	93.0	75.7	64.6	59.9	53.6	39.4	22.1	12.6	11.0
77.5°	28.4	26.8	25.2	18.9	17.3	14.2	11.0	7.9	3.2	0.0	0.0
80°	1.6	1.6	1.6	1.6	1.6	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)