

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: P638390

Luminaire Tested: GWS-SA4E-760-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P638390
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2209-782-16)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 1/10/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: McGRAW-EDISON
Catalog Number: GWS-SA4E-760-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (64) 5700K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19364.4 lumens
Efficiency: N/A
Efficacy: 95.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

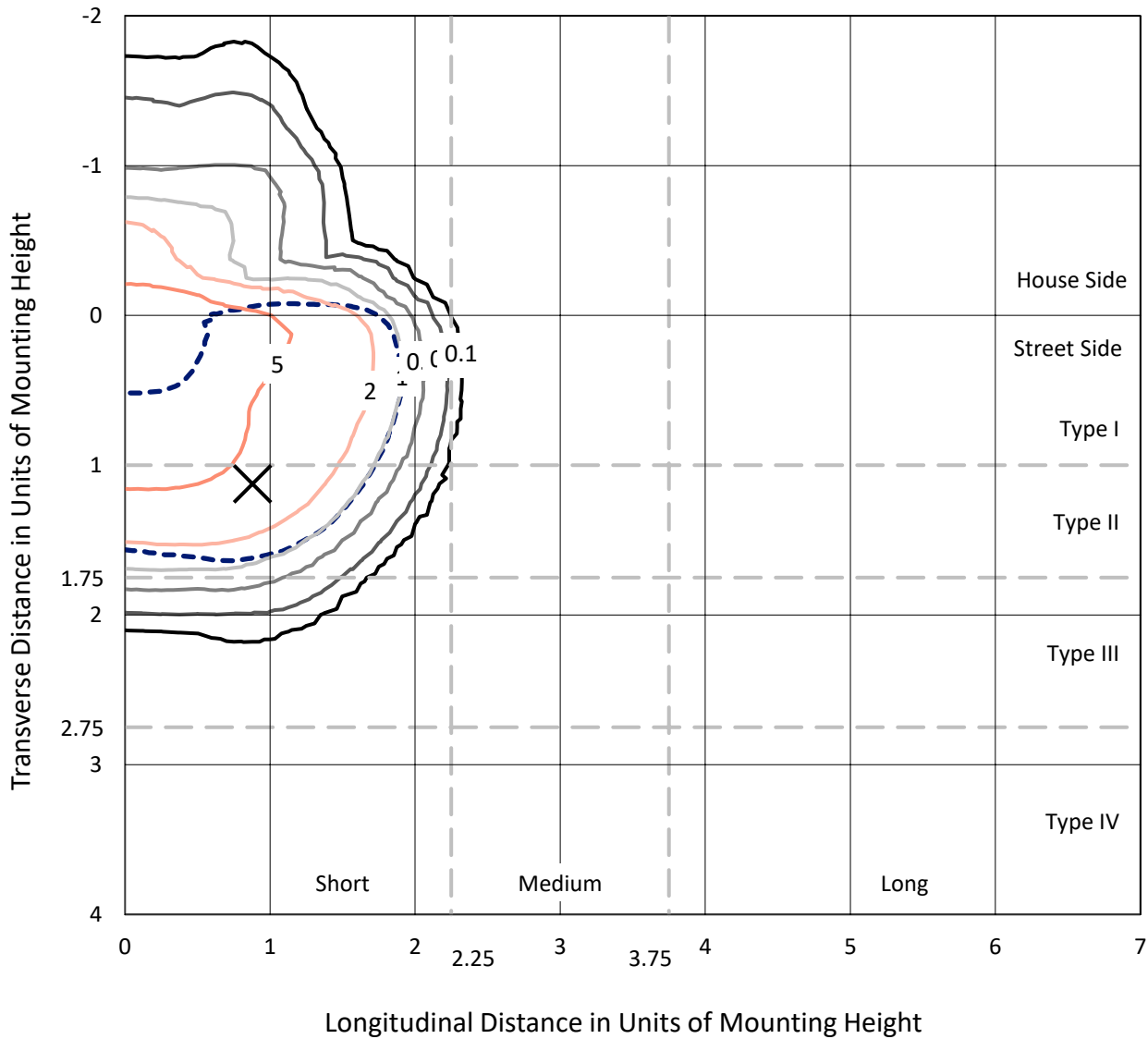
Input Watts (W): 202.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

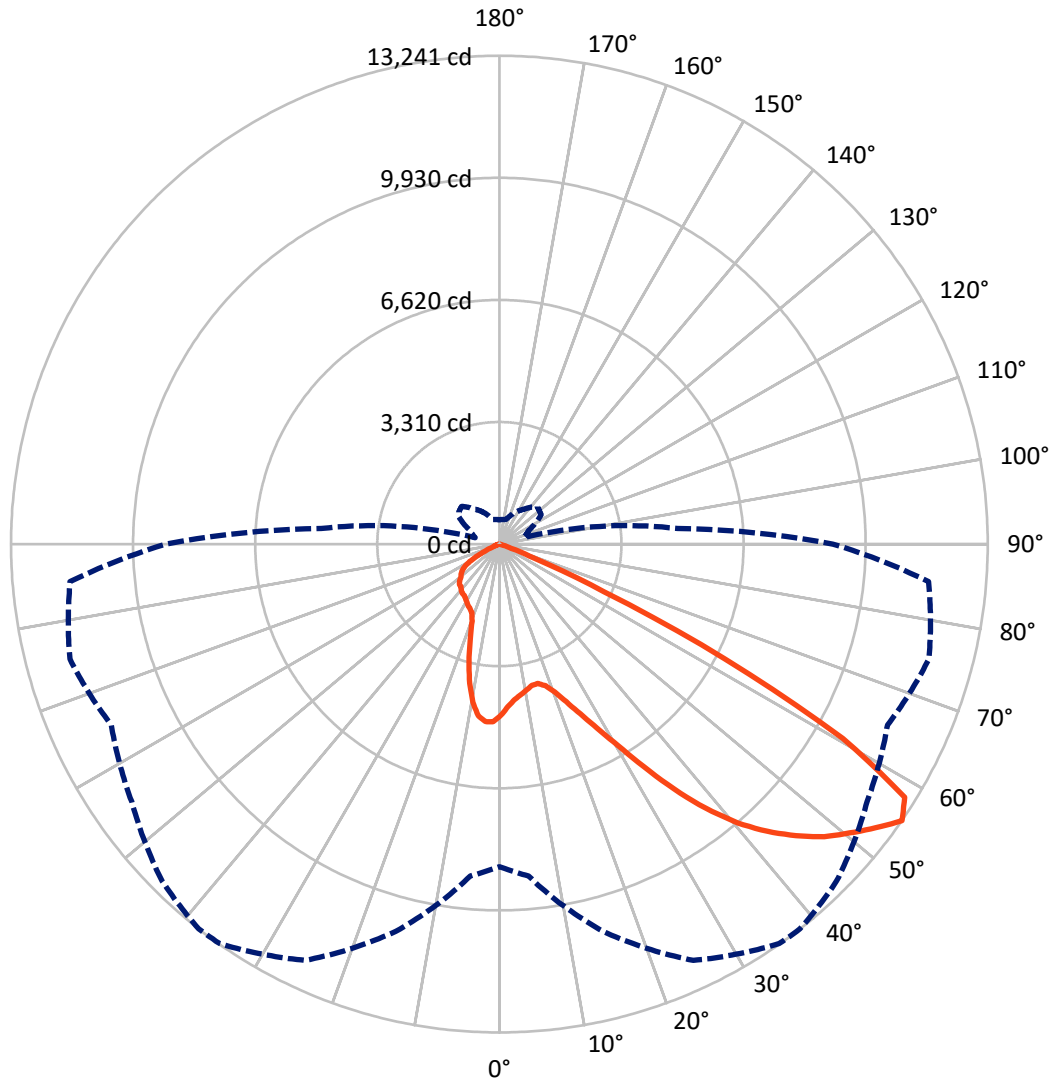
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 38-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3772.8	0.0	3772.8
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	15591.6	0.0	15591.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	19364.4	0.0	19364.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	429.4	2.2
10°-20°	1155.9	6.0
20°-30°	1983.6	10.2
30°-40°	3290.0	17.0
40°-50°	4836.4	25.0
50°-60°	5651.5	29.2
60°-70°	1915.7	9.9
70°-80°	97.9	0.5
80°-90°	3.8	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°	19364.4	100.0
0°-180°	19364.4	100.0

Coefficient of Utilization



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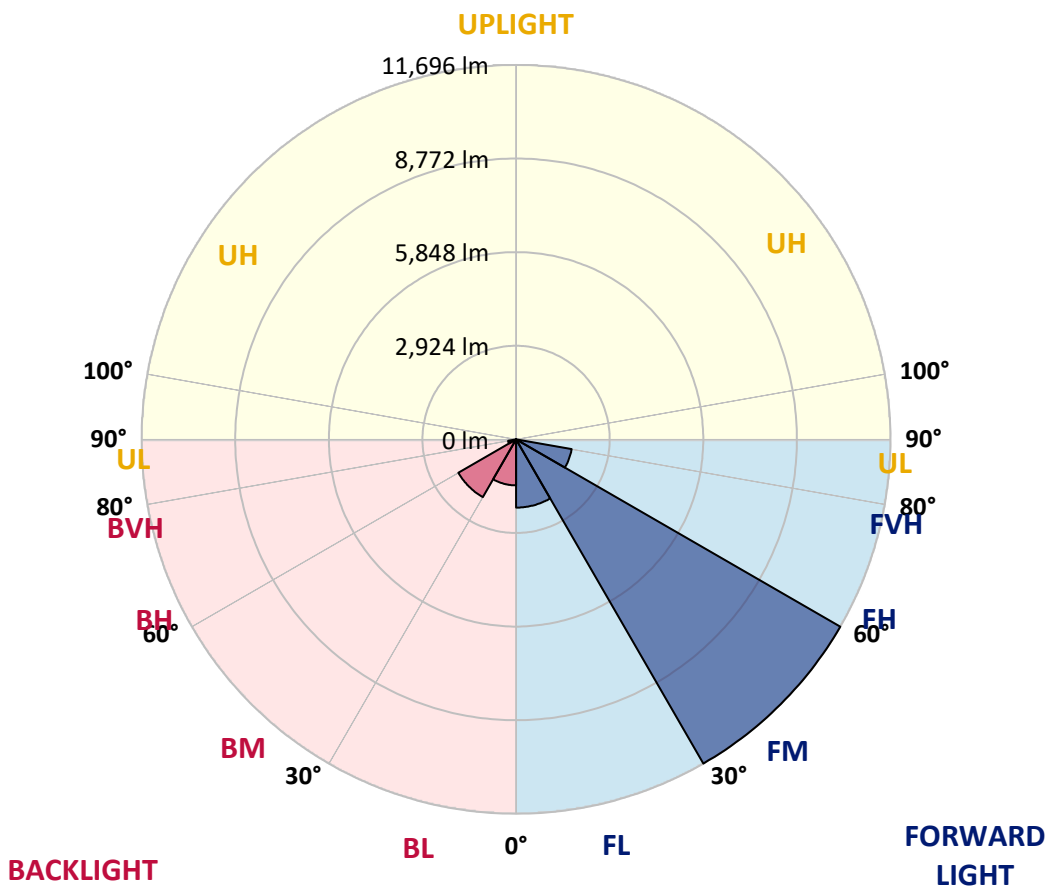
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2131.6	11.0			
FM (30°-60°)	11695.6	60.4			
FH (60°-80°)	1762.5	9.1			G1/1800
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	1437.4	7.4	B3/2500		
BM (30°-60°)	2082.4	10.8	B2/2500		
BH (60°-80°)	251.2	1.3	B1/500		G1/500
BVH (80°-90°)	1.8	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	38°	45°	55°	65°	75°	85°
0°	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7
2.5°	4325.0	4316.1	4333.9	4369.3	4402.5	4413.5	4446.7	4493.2	4522.0	4590.6	4645.9
5°	4130.2	4125.8	4143.5	4174.5	4218.8	4234.3	4285.2	4362.6	4440.1	4559.6	4676.9
7.5°	3953.1	3950.9	3977.5	4046.1	4110.3	4130.2	4192.2	4287.4	4391.4	4575.1	4747.8
10°	3720.7	3723.0	3773.9	3871.3	3988.6	4028.4	4128.0	4265.2	4400.3	4637.1	4876.1
12.5°	3645.5	3649.9	3676.5	3751.7	3880.1	3931.0	4070.5	4278.5	4451.2	4725.6	5042.1
15°	3829.2	3829.2	3807.1	3815.9	3873.5	3919.9	4066.0	4322.8	4537.5	4831.9	5205.9
17.5°	4185.6	4172.3	4116.9	4041.7	4021.8	4037.3	4154.6	4418.0	4659.2	4955.8	5391.9
20°	4668.1	4672.5	4564.0	4406.9	4280.7	4278.5	4349.3	4586.2	4834.1	5104.1	5593.3
22.5°	5252.4	5234.7	5090.8	4876.1	4657.0	4639.3	4668.1	4842.9	5086.4	5338.7	5841.2
25°	5929.7	5920.9	5717.2	5429.5	5139.5	5097.5	5097.5	5270.1	5447.2	5673.0	6137.8
27.5°	6638.0	6638.0	6441.0	6109.0	5723.9	5648.6	5637.6	5841.2	5958.5	6002.8	6387.9
30°	7366.2	7357.4	7162.6	6821.7	6410.0	6332.6	6301.6	6452.1	6536.2	6403.4	6700.0
32.5°	8105.5	8121.0	7924.0	7607.5	7240.1	7189.2	7094.0	7094.0	7162.6	6976.7	7191.4
35°	8900.1	8895.7	8740.8	8526.1	8211.7	8154.2	7997.0	7751.4	7855.4	7773.5	7870.9
37.5°	9601.8	9635.0	9559.7	9400.3	9145.8	9088.3	8829.3	8384.4	8464.1	8592.5	8678.8
40°	10314.5	10341.0	10416.3	10365.4	10044.4	9938.2	9477.8	8747.4	8835.9	9276.4	9524.3
42.5°	11013.9	11027.2	11179.9	11264.0	10834.6	10648.7	9969.2	8968.7	9061.7	9812.0	10245.9
45°	11458.8	11487.6	11739.9	11996.7	11531.9	11277.3	10396.4	9252.0	9291.9	10183.9	10779.3
47.5°	11441.1	11507.5	11981.2	12448.2	12131.7	11857.2	10909.9	9705.8	9639.4	10533.6	11131.2
50°	11084.8	11164.4	11843.9	12585.4	12563.3	12308.8	11481.0	10363.2	10155.1	10843.5	11175.5
52.5°	10345.5	10575.7	11602.7	12603.1	12910.8	12782.4	12187.0	11248.5	10852.3	11288.4	11246.3
55°	8747.4	9030.7	10870.1	12452.6	13225.1	13240.6	12928.5	12171.5	11609.3	12054.2	11682.4
57.5°	6640.2	6866.0	8366.7	11084.8	12705.0	12959.5	13216.3	12658.5	12076.4	12576.6	11784.2
60°	4001.8	4263.0	5239.1	8134.3	10261.4	10695.2	11702.3	11593.8	10892.2	11106.9	9663.7
62.5°	1622.4	1759.7	2419.3	4482.2	6458.7	6863.8	7828.8	7992.6	7820.0	7600.8	5861.1
65°	593.2	648.5	969.5	1852.6	2970.4	3118.7	3627.8	3917.7	4156.8	3539.2	2180.2
67.5°	367.4	402.8	630.8	951.8	1080.1	1004.9	1022.6	1219.6	1164.3	719.4	389.6
70°	272.2	301.0	493.6	659.6	436.0	336.4	228.0	243.5	219.1	192.6	190.4
72.5°	188.1	214.7	369.6	389.6	168.2	119.5	84.1	117.3	132.8	130.6	135.0
75°	124.0	143.9	232.4	152.7	42.1	33.2	28.8	62.0	79.7	79.7	81.9
77.5°	73.0	84.1	81.9	31.0	8.9	8.9	6.6	11.1	17.7	19.9	24.3
80°	8.9	6.6	4.4	4.4	4.4	4.4	4.4	4.4	6.6	6.6	6.6
82.5°	2.2	2.2	2.2	4.4	4.4	4.4	4.4	4.4	4.4	6.6	6.6
85°	0.0	0.0	2.2	2.2	4.4	4.4	4.4	4.4	4.4	6.6	6.6
87.5°	0.0	0.0	2.2	2.2	4.4	4.4	4.4	4.4	4.4	6.6	6.6
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°	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7	4643.7
2.5°	4688.0	4672.5	4736.7	4783.2	4820.8	4838.5	4814.2	4812.0	4812.0	4763.3	4750.0
5°	4743.3	4750.0	4840.7	4880.6	4887.2	4865.1	4809.7	4772.1	4750.0	4699.1	4670.3
7.5°	4849.6	4871.7	4958.0	4951.4	4891.6	4789.8	4643.7	4530.8	4457.8	4378.1	4329.4
10°	5002.3	5044.4	5097.5	5004.5	4814.2	4555.2	4254.2	4039.5	3911.1	3820.3	3765.0
12.5°	5188.2	5230.3	5212.6	4993.4	4597.2	4134.6	3747.3	3437.4	3289.1	3207.2	3149.7
15°	5376.4	5402.9	5287.8	4860.6	4214.3	3592.4	3160.7	2853.1	2671.6	2605.2	2556.5
17.5°	5568.9	5562.3	5301.1	4599.5	3703.0	2981.5	2556.5	2346.2	2295.3	2284.2	2279.8
20°	5770.4	5710.6	5248.0	4225.4	3087.7	2377.2	2135.9	2149.2	2242.2	2286.5	2295.3
22.5°	6000.6	5850.0	5115.2	3718.5	2459.1	1981.0	2005.3	2135.9	2262.1	2321.9	2330.7
25°	6246.2	5978.4	4893.8	3067.8	1938.9	1821.6	1965.5	2116.0	2251.0	2324.1	2332.9
27.5°	6407.8	6009.4	4530.8	2412.6	1664.5	1759.7	1912.4	2056.3	2195.7	2275.4	2286.5
30°	6582.7	5996.1	4037.3	1859.3	1571.5	1706.5	1839.3	1969.9	2098.3	2186.8	2195.7
32.5°	6839.4	5987.3	3435.2	1509.5	1533.9	1664.5	1761.9	1870.3	1958.9	2009.8	2003.1
35°	7175.9	5976.2	2733.6	1361.2	1511.8	1631.3	1708.8	1759.7	1662.3	1631.3	1637.9
37.5°	7607.5	6002.8	2142.6	1299.3	1505.1	1622.4	1688.8	1542.7	1392.2	1334.7	1325.8
40°	8085.6	6071.4	1633.5	1274.9	1527.3	1644.6	1613.6	1372.3	1186.4	1073.5	1049.2
42.5°	8565.9	6146.6	1292.6	1266.1	1564.9	1706.5	1489.6	1248.4	969.5	905.3	896.4
45°	8922.3	6133.4	1117.8	1250.6	1598.1	1742.0	1456.4	1071.3	865.4	836.7	838.9
47.5°	9101.5	5987.3	1022.6	1215.2	1611.4	1706.5	1374.5	998.2	794.6	825.6	852.2
50°	9006.4	5608.8	934.1	1146.5	1582.6	1660.1	1243.9	942.9	759.2	887.6	947.3
52.5°	8891.3	5144.0	836.7	1040.3	1514.0	1595.9	1193.0	927.4	737.1	856.6	900.9
55°	9044.0	4849.6	677.3	876.5	1379.0	1445.4	1153.2	925.2	686.2	666.2	659.6
57.5°	8829.3	4263.0	484.7	630.8	1058.0	1144.3	1124.4	909.7	608.7	606.5	615.3
60°	6823.9	2600.8	332.0	400.6	648.5	730.4	1020.4	869.9	524.6	482.5	484.7
62.5°	3877.9	1106.7	228.0	247.9	332.0	394.0	779.1	790.2	484.7	460.4	484.7
65°	1350.2	396.2	177.1	166.0	183.7	210.3	447.1	610.9	440.5	398.4	402.8
67.5°	278.9	197.0	157.2	137.2	137.2	137.2	228.0	380.7	363.0	316.5	320.9
70°	177.1	168.2	137.2	117.3	112.9	104.0	130.6	210.3	250.1	230.2	232.4
72.5°	130.6	128.4	108.5	95.2	84.1	75.3	81.9	104.0	128.4	132.8	135.0
75°	79.7	81.9	70.8	59.8	53.1	46.5	48.7	48.7	48.7	44.3	48.7
77.5°	24.3	26.6	22.1	17.7	15.5	15.5	15.5	13.3	11.1	6.6	6.6
80°	6.6	6.6	6.6	6.6	6.6	4.4	4.4	2.2	2.2	0.0	0.0
82.5°	6.6	6.6	6.6	6.6	4.4	4.4	2.2	2.2	0.0	0.0	0.0
85°	6.6	6.6	6.6	6.6	4.4	4.4	2.2	2.2	0.0	0.0	0.0
87.5°	6.6	6.6	6.6	6.6	4.4	4.4	2.2	2.2	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)