

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: P640260

Luminaire Tested: GWS-SA5D-740-U-T3R-W-GRSBK

Issue Date: 1/10/2023

Test Information

Test Method: LM-79-2019
Report Number: P640260
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-SA5D-740-U-T3R-W-GRSBK
Description: GALLEON WALL SLIM LUMINAIRE. (5) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III ROADWAY OPTICS W/ FACTORY INSTALLED GLARE SHIELD, BK
Light Source: (80) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18841.4 lumens
Efficiency: N/A
Efficacy: 92.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G1

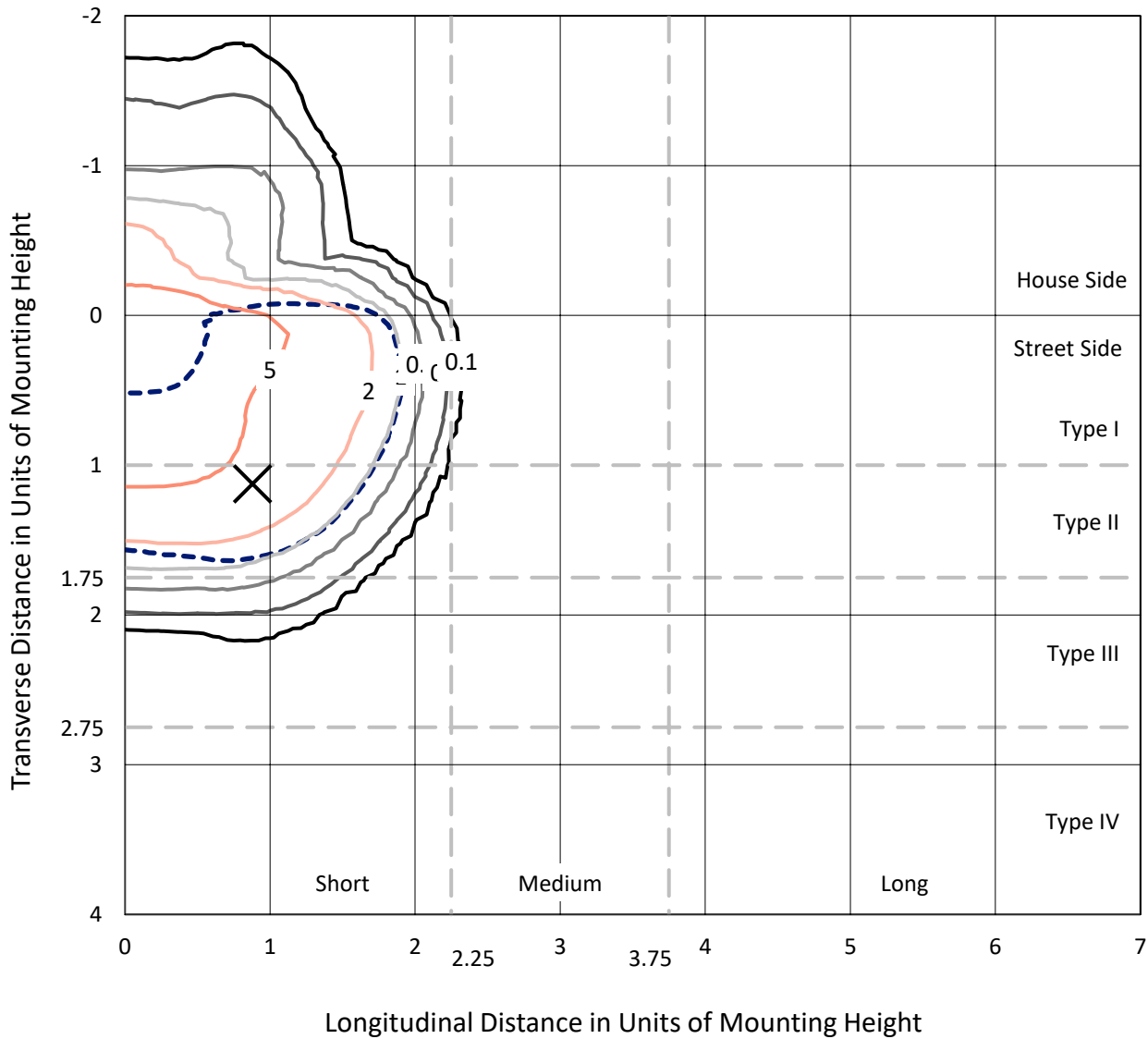
Input Watts (W): 204.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 0
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

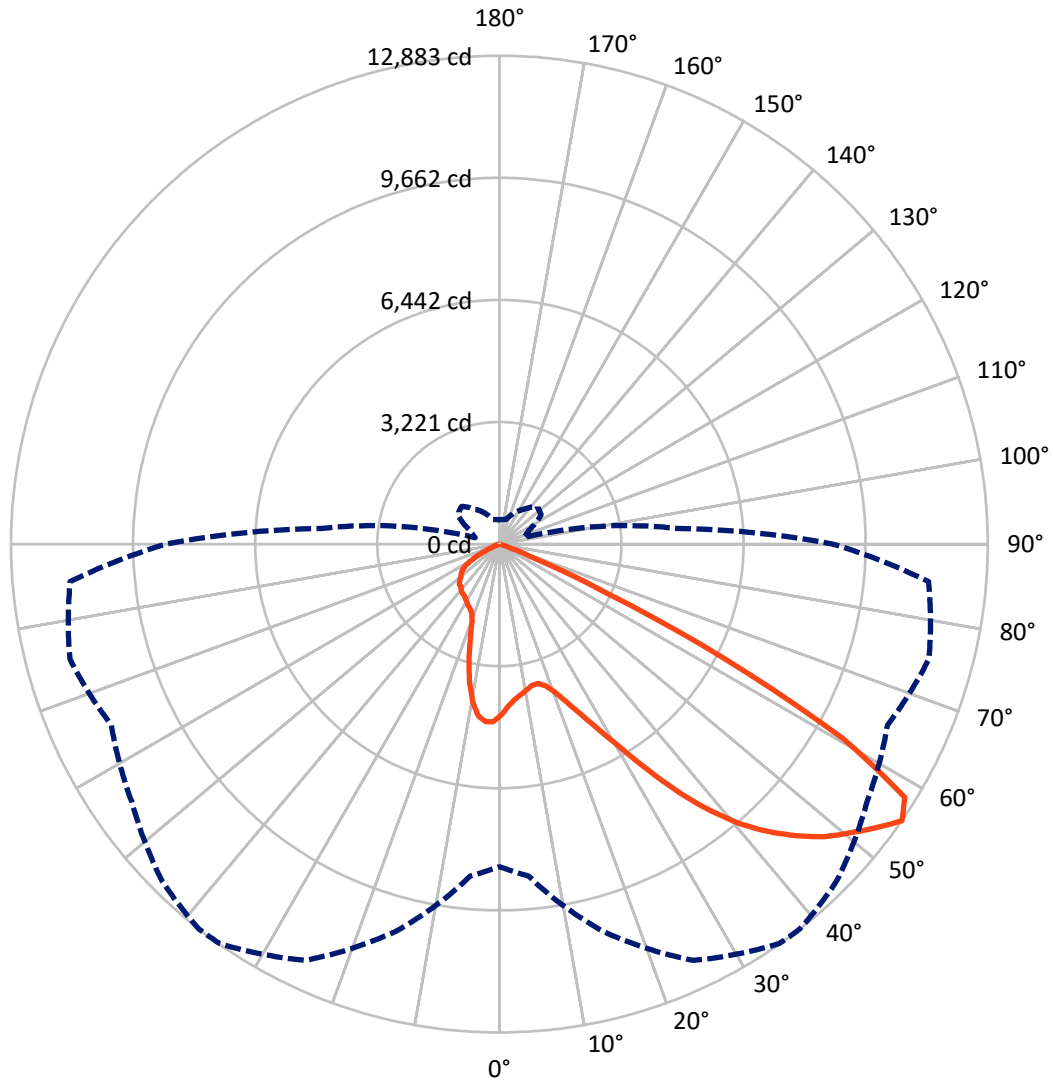
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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	3670.9	0.0	3670.9
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	15170.5	0.0	15170.5
	% Fixture	80.5	0.0	80.5
Total	Lumens	18841.4	0.0	18841.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	417.8	2.2
10°-20°	1124.7	6.0
20°-30°	1930.1	10.2
30°-40°	3201.1	17.0
40°-50°	4705.8	25.0
50°-60°	5498.9	29.2
60°-70°	1863.9	9.9
70°-80°	95.3	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°	18841.4	100.0
0°-180°	18841.4	100.0

Coefficient of Utilization



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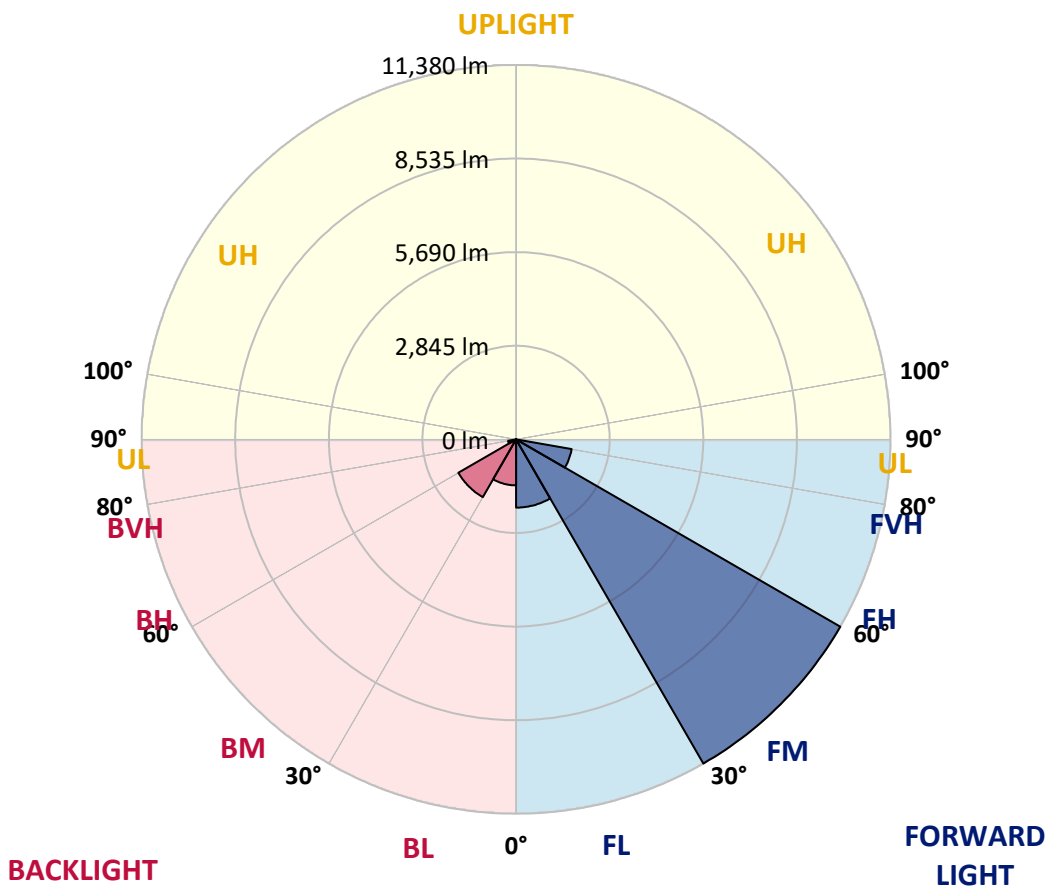
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2074.0	11.0			
FM (30°-60°)	11379.7	60.4			
FH (60°-80°)	1714.9	9.1			G1/1800
FVH (80°-90°)	2.0	0.0			G0/10
BL (0°-30°)	1398.6	7.4	B3/2500		
BM (30°-60°)	2026.2	10.8	B2/2500		
BH (60°-80°)	244.4	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°	4518.3	4518.3	4518.3	4518.3	4518.3	4518.3	4518.3	4518.3	4518.3	4518.3	4518.3
2.5°	4208.2	4199.6	4216.8	4251.3	4283.6	4294.3	4326.6	4371.9	4399.9	4466.6	4520.5
5°	4018.7	4014.4	4031.6	4061.7	4104.8	4119.9	4169.4	4244.8	4320.2	4436.5	4550.6
7.5°	3846.4	3844.2	3870.1	3936.8	3999.3	4018.7	4079.0	4171.6	4272.8	4451.5	4619.5
10°	3620.2	3622.4	3671.9	3766.7	3880.8	3919.6	4016.5	4150.0	4281.4	4511.9	4744.4
12.5°	3547.0	3551.3	3577.2	3650.4	3775.3	3824.8	3960.5	4163.0	4330.9	4598.0	4906.0
15°	3725.8	3725.8	3704.2	3712.9	3768.8	3814.1	3956.2	4206.0	4414.9	4701.4	5065.3
17.5°	4072.5	4059.6	4005.7	3932.5	3913.1	3928.2	4042.4	4298.6	4533.4	4822.0	5246.2
20°	4542.0	4546.3	4440.8	4287.9	4165.1	4163.0	4231.9	4462.3	4703.5	4966.3	5442.2
22.5°	5110.6	5093.3	4953.3	4744.4	4531.2	4514.0	4542.0	4712.1	4949.0	5194.6	5683.4
25°	5769.6	5761.0	5562.8	5282.9	5000.7	4959.8	4959.8	5127.8	5300.1	5519.7	5972.0
27.5°	6458.7	6458.7	6267.1	5944.0	5569.3	5496.1	5485.3	5683.4	5797.6	5840.6	6215.4
30°	7167.3	7158.7	6969.1	6637.5	6236.9	6161.5	6131.4	6277.8	6359.7	6230.4	6519.0
32.5°	7886.6	7901.7	7710.0	7402.0	7044.5	6995.0	6902.4	6902.4	6969.1	6788.2	6997.1
35°	8659.7	8655.4	8504.7	8295.8	7990.0	7934.0	7781.1	7542.0	7643.2	7563.5	7658.3
37.5°	9342.4	9374.7	9301.5	9146.5	8898.8	8842.8	8590.8	8157.9	8235.5	8360.4	8444.4
40°	10035.9	10061.8	10135.0	10085.4	9773.2	9669.8	9221.8	8511.1	8597.3	9025.9	9267.1
42.5°	10716.5	10729.4	10878.0	10959.8	10542.0	10361.1	9699.9	8726.5	8817.0	9547.0	9969.1
45°	11149.3	11177.3	11422.8	11672.7	11220.4	10972.7	10115.6	9002.2	9040.9	9908.8	10488.2
47.5°	11132.1	11196.7	11657.6	12112.0	11804.0	11537.0	10615.2	9443.7	9379.1	10249.1	10830.6
50°	10785.4	10862.9	11524.1	12245.5	12224.0	11976.3	11170.9	10083.3	9880.8	10550.6	10873.7
52.5°	10066.1	10290.0	11289.3	12262.8	12562.1	12437.2	11857.9	10944.7	10559.2	10983.5	10942.6
55°	8511.1	8786.8	10576.5	12116.3	12867.9	12883.0	12579.3	11842.8	11295.8	11728.7	11366.8
57.5°	6460.9	6680.6	8140.7	10785.4	12361.8	12609.5	12859.3	12316.6	11750.2	12236.9	11465.9
60°	3893.8	4147.9	5097.6	7914.6	9984.2	10406.3	11386.2	11280.7	10598.0	10806.9	9402.7
62.5°	1578.6	1712.1	2353.9	4361.1	6284.3	6678.4	7617.4	7776.8	7608.8	7395.6	5702.8
65°	577.2	631.0	943.3	1802.6	2890.2	3034.5	3529.8	3811.9	4044.5	3443.7	2121.3
67.5°	357.5	392.0	613.8	926.1	1051.0	977.7	995.0	1186.6	1132.8	699.9	379.0
70°	264.9	292.9	480.3	641.8	424.3	327.4	221.8	236.9	213.2	187.4	185.2
72.5°	183.1	208.9	359.7	379.0	163.7	116.3	81.8	114.1	129.2	127.1	131.4
75°	120.6	140.0	226.1	148.6	40.9	32.3	28.0	60.3	77.5	77.5	79.7
77.5°	71.1	81.8	79.7	30.2	8.6	8.6	6.5	10.8	17.2	19.4	23.7
80°	8.6	6.5	4.3	4.3	4.3	4.3	4.3	4.3	6.5	6.5	6.5
82.5°	2.2	2.2	2.2	4.3	4.3	4.3	4.3	4.3	4.3	6.5	6.5
85°	0.0	0.0	2.2	2.2	4.3	4.3	4.3	4.3	4.3	6.5	6.5
87.5°	0.0	0.0	2.2	2.2	4.3	4.3	4.3	4.3	4.3	6.5	6.5
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°	4518.3	4518.3	4518.3	4518.3	4518.3	4518.3	4518.3	4518.3	4518.3	4518.3	4518.3
2.5°	4561.4	4546.3	4608.8	4654.0	4690.6	4707.8	4684.1	4682.0	4682.0	4634.6	4621.7
5°	4615.2	4621.7	4710.0	4748.8	4755.2	4733.7	4679.8	4643.2	4621.7	4572.2	4544.2
7.5°	4718.6	4740.1	4824.1	4817.7	4759.5	4660.5	4518.3	4408.5	4337.4	4259.9	4212.5
10°	4867.2	4908.1	4959.8	4869.4	4684.1	4432.2	4139.3	3930.4	3805.5	3717.2	3663.3
12.5°	5048.1	5089.0	5071.8	4858.6	4473.1	4023.0	3646.1	3344.6	3200.3	3120.6	3064.6
15°	5231.2	5257.0	5145.0	4729.4	4100.5	3495.3	3075.4	2776.0	2599.4	2534.8	2487.4
17.5°	5418.5	5412.1	5157.9	4475.2	3603.0	2900.9	2487.4	2282.8	2233.3	2222.5	2218.2
20°	5614.5	5556.4	5106.3	4111.3	3004.3	2313.0	2078.3	2091.2	2181.6	2224.7	2233.3
22.5°	5838.5	5692.0	4977.0	3618.1	2392.7	1927.5	1951.2	2078.3	2201.0	2259.2	2267.8
25°	6077.5	5816.9	4761.7	2984.9	1886.6	1772.4	1912.4	2058.9	2190.2	2261.3	2269.9
27.5°	6234.8	5847.1	4408.5	2347.5	1619.5	1712.1	1860.7	2000.7	2136.4	2213.9	2224.7
30°	6404.9	5834.2	3928.2	1809.0	1529.1	1660.4	1789.7	1916.7	2041.6	2127.8	2136.4
32.5°	6654.7	5825.6	3342.4	1468.8	1492.5	1619.5	1714.3	1819.8	1906.0	1955.5	1949.0
35°	6982.1	5814.8	2659.7	1324.5	1470.9	1587.2	1662.6	1712.1	1617.4	1587.2	1593.7
37.5°	7402.0	5840.6	2084.7	1264.2	1464.5	1578.6	1643.2	1501.1	1354.6	1298.6	1290.0
40°	7867.2	5907.4	1589.4	1240.5	1486.0	1600.1	1570.0	1335.2	1154.3	1044.5	1020.8
42.5°	8334.5	5980.6	1257.7	1231.9	1522.6	1660.4	1449.4	1214.6	943.3	880.8	872.2
45°	8681.3	5967.7	1087.6	1216.8	1554.9	1694.9	1417.1	1042.4	842.1	814.1	816.2
47.5°	8855.7	5825.6	995.0	1182.3	1567.8	1660.4	1337.4	971.3	773.2	803.3	829.1
50°	8763.1	5457.3	908.8	1115.6	1539.8	1615.2	1210.3	917.4	738.7	863.6	921.8
52.5°	8651.1	5005.0	814.1	1012.2	1473.1	1552.8	1160.8	902.4	717.2	833.5	876.5
55°	8799.7	4718.6	659.0	852.8	1341.7	1406.3	1122.0	900.2	667.6	648.2	641.8
57.5°	8590.8	4147.9	471.6	613.8	1029.4	1113.4	1094.0	885.1	592.2	590.1	598.7
60°	6639.6	2530.5	323.0	389.8	631.0	710.7	992.8	846.4	510.4	469.5	471.6
62.5°	3773.2	1076.8	221.8	241.2	323.0	383.3	758.1	768.8	471.6	448.0	471.6
65°	1313.7	385.5	172.3	161.5	178.8	204.6	435.0	594.4	428.6	387.7	392.0
67.5°	271.4	191.7	152.9	133.5	133.5	133.5	221.8	370.4	353.2	308.0	312.3
70°	172.3	163.7	133.5	114.1	109.8	101.2	127.1	204.6	243.4	224.0	226.1
72.5°	127.1	124.9	105.5	92.6	81.8	73.2	79.7	101.2	124.9	129.2	131.4
75°	77.5	79.7	68.9	58.1	51.7	45.2	47.4	47.4	47.4	43.1	47.4
77.5°	23.7	25.8	21.5	17.2	15.1	15.1	15.1	12.9	10.8	6.5	6.5
80°	6.5	6.5	6.5	6.5	6.5	4.3	4.3	2.2	2.2	0.0	0.0
82.5°	6.5	6.5	6.5	6.5	4.3	4.3	2.2	2.2	0.0	0.0	0.0
85°	6.5	6.5	6.5	6.5	4.3	4.3	2.2	2.2	0.0	0.0	0.0
87.5°	6.5	6.5	6.5	6.5	4.3	4.3	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)