

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P200240

Luminaire Tested: **GWC-AF-02-LED-E1-5WQ-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200240
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-5WQ-7050
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 5000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13085 lumens
Efficiency: N/A
Efficacy: 115.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

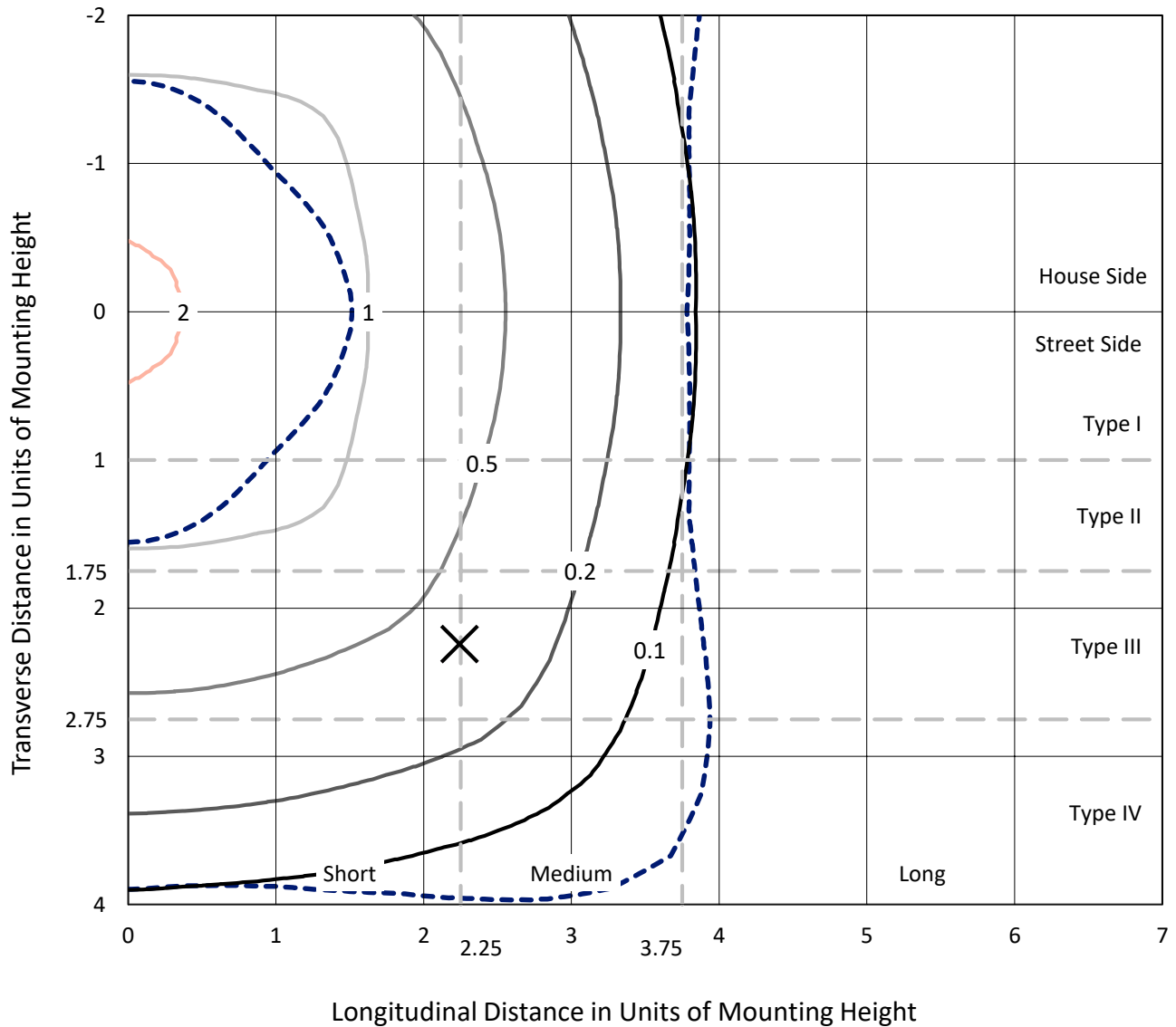
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

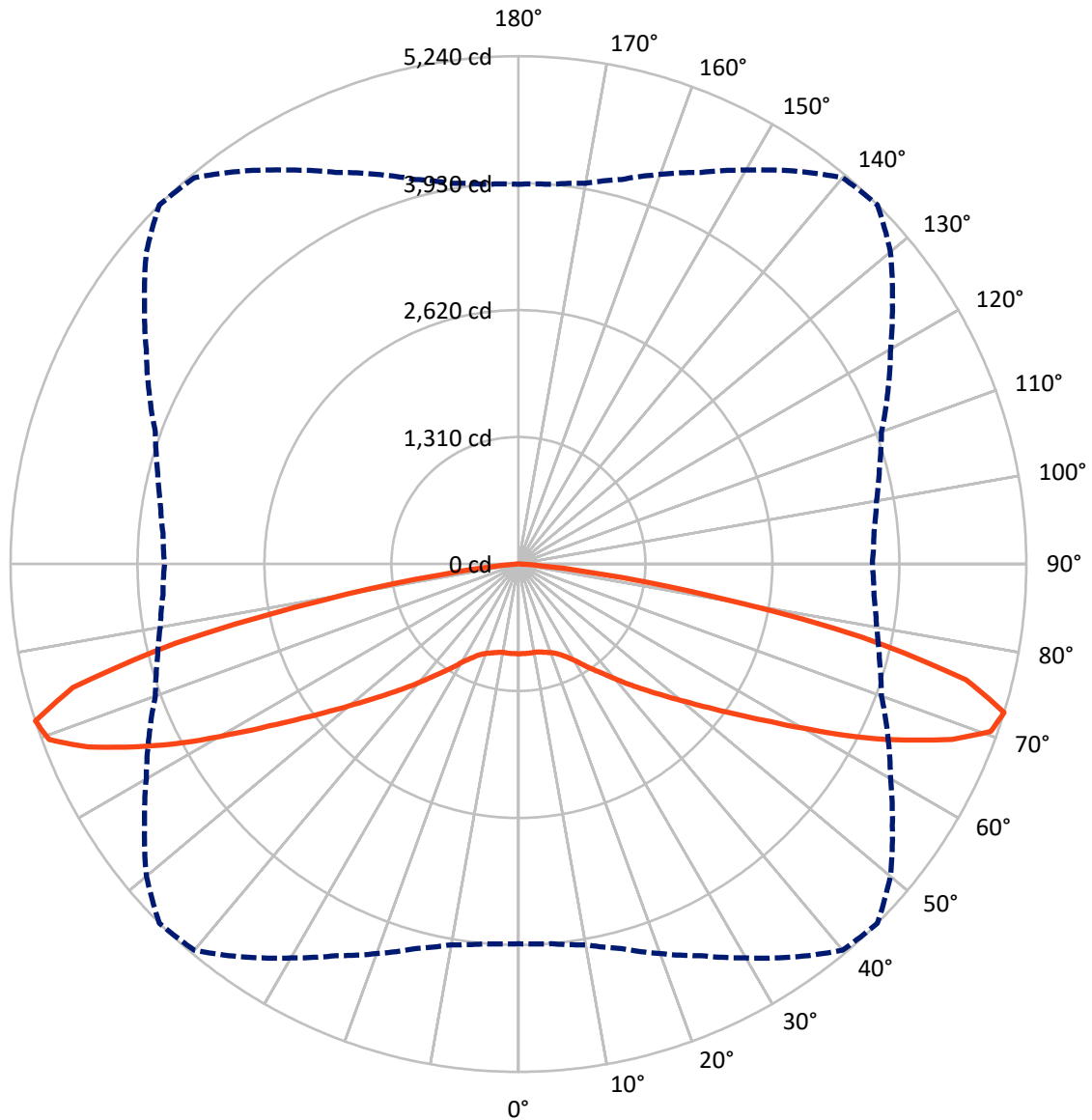
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2.3 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6542.5	0.0	6542.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6542.5	0.0	6542.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	13085.0	0.0	13085.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.5	0.7
10°-20°	268.7	2.1
20°-30°	491.1	3.8
30°-40°	846.7	6.5
40°-50°	1447.4	11.1
50°-60°	2346.1	17.9
60°-70°	3892.1	29.7
70°-80°	3428.0	26.2
80°-90°	276.4	2.1
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°	13085.0	100.0
0°-180°	13085.0	100.0



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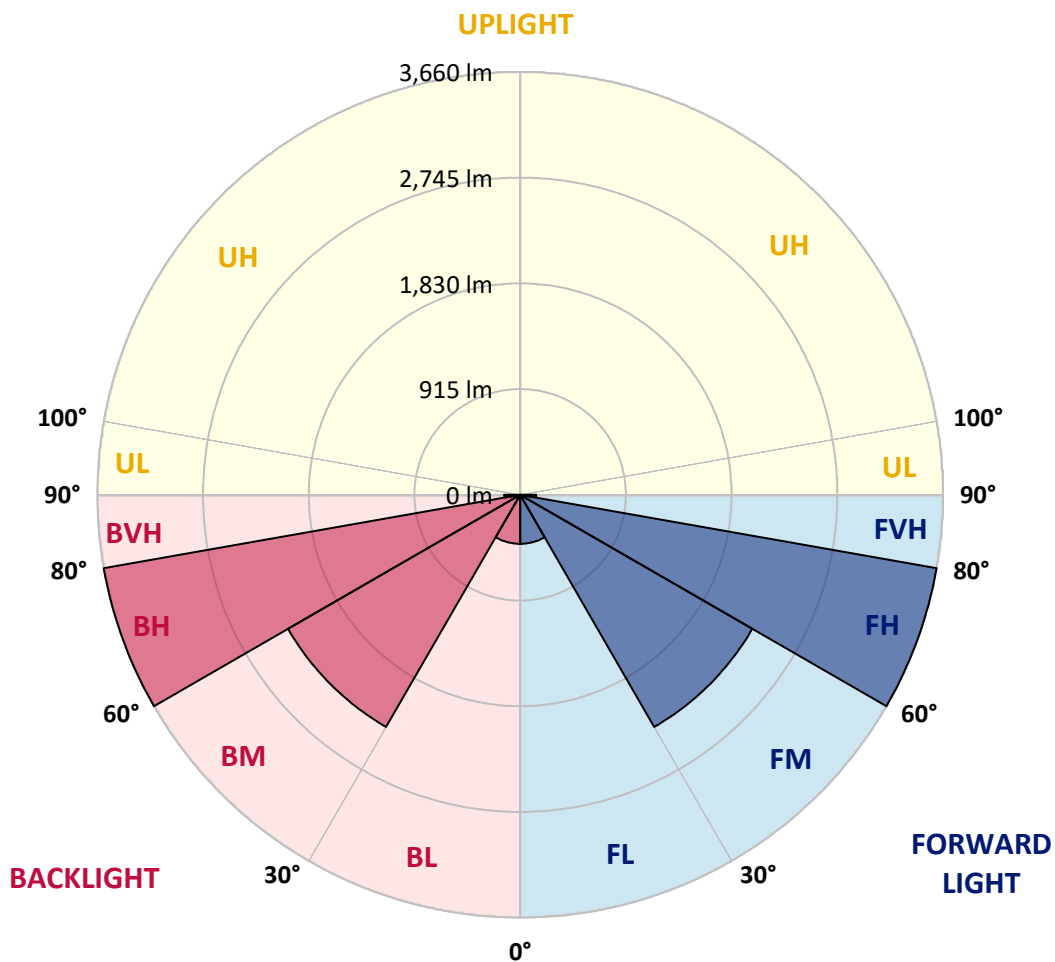
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	424.1	3.2			
FM (30°-60°)	2320.1	17.7			
FH (60°-80°)	3660.0	28.0			G2/5000
FVH (80°-90°)	138.2	1.1			G2/225
BL (0°-30°)	424.1	3.2	B1/500		
BM (30°-60°)	2320.1	17.7	B2/2500		
BH (60°-80°)	3660.0	28.0	B4/5000		G2/5000
BVH (80°-90°)	138.2	1.1			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	926.6	926.6	926.6	926.6	926.6	926.6	926.6	926.6	926.6	926.6	926.6
2.5°	926.6	927.2	927.8	927.2	927.2	926.6	926.0	926.6	926.0	924.8	925.4
5°	929.6	930.8	930.8	929.6	930.2	929.6	928.4	929.0	927.8	926.0	926.0
7.5°	933.2	933.8	933.8	932.6	933.2	932.0	930.8	930.2	929.0	926.6	924.8
10°	938.6	939.2	938.6	937.4	937.4	935.6	932.6	931.4	929.0	925.4	923.6
12.5°	944.6	945.2	944.6	943.4	942.8	939.8	937.4	935.6	933.8	930.8	927.8
15°	953.0	954.2	953.0	950.6	948.8	946.4	945.2	945.8	946.4	944.0	941.0
17.5°	968.6	969.2	967.4	962.0	959.6	957.2	957.2	958.4	960.2	959.0	956.0
20°	997.4	995.6	991.4	984.8	981.8	977.6	977.0	977.6	977.6	977.0	974.6
22.5°	1033.4	1032.2	1026.8	1018.4	1014.2	1011.8	1008.2	1005.2	1004.6	1002.8	1000.4
25°	1076.7	1076.1	1069.5	1062.3	1059.3	1056.3	1053.3	1049.1	1045.4	1041.2	1038.8
27.5°	1131.9	1129.5	1119.9	1116.3	1112.1	1110.3	1106.1	1101.3	1098.3	1092.9	1089.9
30°	1192.5	1192.5	1184.7	1183.5	1183.5	1179.3	1174.5	1166.1	1160.7	1155.3	1153.5
32.5°	1253.1	1253.7	1245.9	1248.3	1250.1	1253.1	1254.3	1251.3	1247.7	1247.1	1243.5
35°	1340.7	1338.3	1330.5	1332.3	1331.7	1331.1	1331.1	1337.7	1338.9	1340.1	1332.9
37.5°	1449.3	1449.3	1441.5	1441.5	1437.9	1434.3	1429.5	1433.7	1440.3	1442.1	1437.3
40°	1573.6	1577.8	1568.2	1567.6	1568.8	1557.4	1552.0	1558.6	1562.8	1570.0	1564.6
42.5°	1720.0	1717.0	1707.4	1706.2	1699.6	1696.0	1691.2	1696.6	1703.2	1708.0	1709.8
45°	1860.4	1858.0	1847.2	1847.2	1840.6	1837.6	1840.0	1849.0	1852.0	1858.6	1865.2
47.5°	1999.1	1996.1	1988.9	1991.9	1992.5	1997.9	2005.7	2014.1	2022.5	2031.5	2034.5
50°	2140.7	2141.3	2133.5	2140.7	2149.7	2164.7	2185.7	2199.5	2216.9	2228.3	2231.9
52.5°	2269.7	2272.1	2280.5	2297.3	2315.4	2344.8	2380.8	2414.4	2443.2	2462.4	2461.2
55°	2424.6	2428.2	2448.6	2477.4	2506.8	2551.2	2604.6	2664.0	2712.0	2739.7	2722.3
57.5°	2622.6	2630.4	2653.2	2692.2	2736.1	2793.7	2866.9	2956.3	3030.7	3067.9	3039.7
60°	2894.5	2899.3	2926.9	2970.1	3022.9	3094.3	3192.2	3312.2	3417.2	3466.4	3434.0
62.5°	3252.8	3261.8	3284.0	3327.8	3381.8	3462.8	3582.3	3732.3	3863.1	3931.5	3858.3
65°	3680.7	3709.5	3728.1	3772.5	3822.9	3908.7	4033.6	4194.4	4334.8	4379.8	4295.2
67.5°	4104.4	4129.6	4162.0	4213.0	4264.0	4360.6	4476.5	4632.5	4786.7	4827.6	4696.1
70°	4289.8	4304.2	4354.6	4424.3	4522.1	4636.1	4769.9	4945.2	5136.0	5169.6	5002.8
72.5°	3918.3	3932.7	3989.2	4107.4	4277.8	4459.1	4692.5	4950.0	5202.0	5239.9	5010.0
75°	2963.5	2940.1	3023.5	3180.2	3410.0	3662.7	3989.2	4358.2	4722.5	4769.9	4495.7
77.5°	1531.6	1528.6	1591.6	1786.0	2060.3	2347.8	2707.2	3124.3	3480.8	3624.9	3401.6
80°	431.5	436.3	466.3	562.9	723.2	930.8	1211.7	1602.4	1894.1	2042.9	1918.1
82.5°	169.2	182.4	193.8	211.9	232.9	263.5	351.7	523.3	702.2	839.0	687.2
85°	60.6	64.8	91.8	108.6	110.4	116.4	132.6	154.8	186.6	222.7	183.0
87.5°	22.8	25.2	29.4	48.6	48.0	43.8	53.4	55.8	42.0	38.4	47.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	926.6	926.6	926.6	926.6	926.6	926.6	926.6	926.6
2.5°	924.2	924.8	924.8	925.4	926.0	926.0	927.2	927.2
5°	924.8	924.8	923.6	924.2	923.6	923.6	924.2	924.2
7.5°	923.6	923.0	921.8	921.2	920.0	920.0	920.0	920.0
10°	921.8	921.2	920.0	919.4	918.8	918.8	918.8	918.8
12.5°	926.6	924.8	923.6	923.0	923.0	923.0	923.0	923.0
15°	939.2	935.0	932.0	932.0	932.6	933.8	933.8	935.0
17.5°	954.8	950.0	947.0	944.6	945.8	947.6	948.8	950.0
20°	973.4	971.0	966.8	964.4	964.4	966.8	968.0	968.6
22.5°	999.2	997.4	995.6	992.6	992.6	993.8	996.2	996.2
25°	1037.6	1036.4	1035.2	1032.8	1032.2	1032.2	1033.4	1034.6
27.5°	1085.7	1086.3	1085.1	1084.5	1082.7	1082.1	1083.9	1083.3
30°	1149.9	1152.9	1155.9	1153.5	1150.5	1148.7	1146.9	1144.5
32.5°	1236.9	1233.3	1230.9	1226.7	1221.3	1216.5	1212.9	1208.7
35°	1319.1	1313.1	1310.7	1314.3	1313.7	1310.7	1306.5	1302.9
37.5°	1419.9	1418.7	1419.9	1426.5	1425.3	1428.3	1419.9	1419.3
40°	1547.2	1548.4	1556.8	1564.6	1568.8	1573.0	1568.2	1563.4
42.5°	1694.8	1694.2	1697.2	1708.0	1715.2	1720.0	1709.8	1708.6
45°	1850.8	1846.6	1849.0	1858.0	1865.2	1870.6	1859.2	1859.2
47.5°	2022.5	2015.3	2007.5	2017.7	2021.9	2025.5	2016.5	2013.5
50°	2213.9	2198.9	2182.1	2186.3	2186.3	2185.1	2173.7	2173.1
52.5°	2433.6	2406.0	2375.4	2364.0	2357.4	2350.2	2330.4	2320.8
55°	2686.2	2644.8	2596.8	2567.4	2551.8	2532.0	2499.0	2490.0
57.5°	2981.5	2916.7	2833.9	2797.9	2763.1	2730.7	2694.0	2683.8
60°	3331.4	3236.0	3126.1	3059.5	3021.7	2990.5	2952.7	2950.9
62.5°	3721.5	3570.9	3446.6	3386.6	3359.0	3331.4	3295.4	3300.2
65°	4118.2	3960.9	3844.5	3795.9	3770.1	3747.3	3711.3	3716.7
67.5°	4509.5	4364.8	4237.0	4187.2	4158.4	4129.6	4097.2	4102.6
70°	4790.3	4610.9	4466.9	4356.4	4287.4	4209.4	4159.0	4146.4
72.5°	4709.9	4433.3	4204.6	3985.6	3857.1	3752.7	3681.9	3651.3
75°	4076.2	3698.1	3404.0	3135.1	2983.9	2860.9	2771.5	2715.6
77.5°	3027.1	2602.2	2254.7	1945.1	1700.2	1535.8	1419.9	1344.9
80°	1657.0	1260.3	921.2	647.6	475.9	395.5	349.3	327.1
82.5°	516.1	333.1	245.5	211.9	196.8	188.4	174.6	152.4
85°	164.4	144.0	133.8	127.8	121.8	106.2	73.2	66.6
87.5°	63.6	65.4	64.8	61.2	62.4	45.0	36.0	31.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)