

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: P190791

Luminaire Tested: **GLEON-AF-03-LED-E1-5MQ-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P190791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GLEON-AF-03-LED-E1-5MQ-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12866.7 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

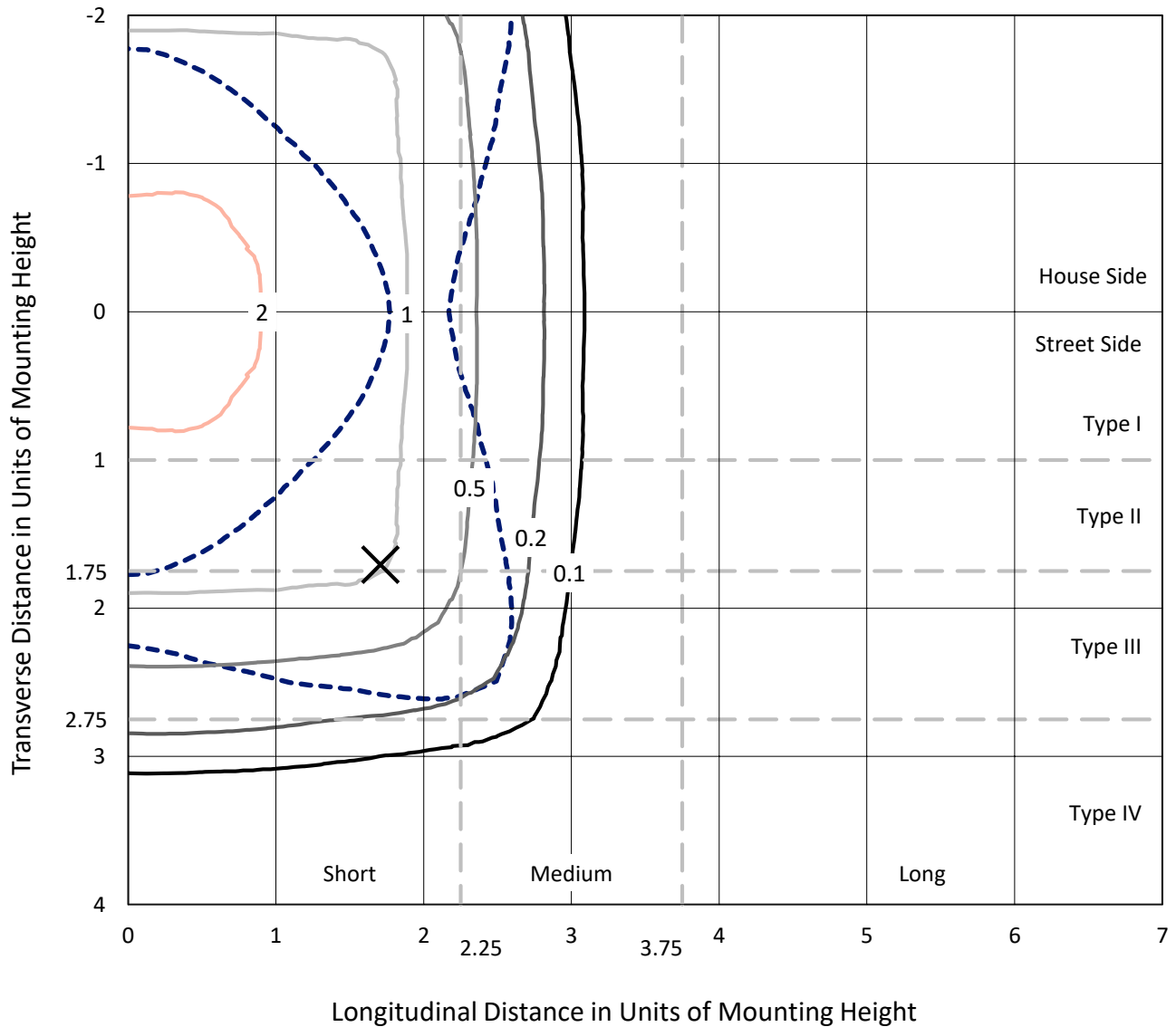
Input Watts (W): 96
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

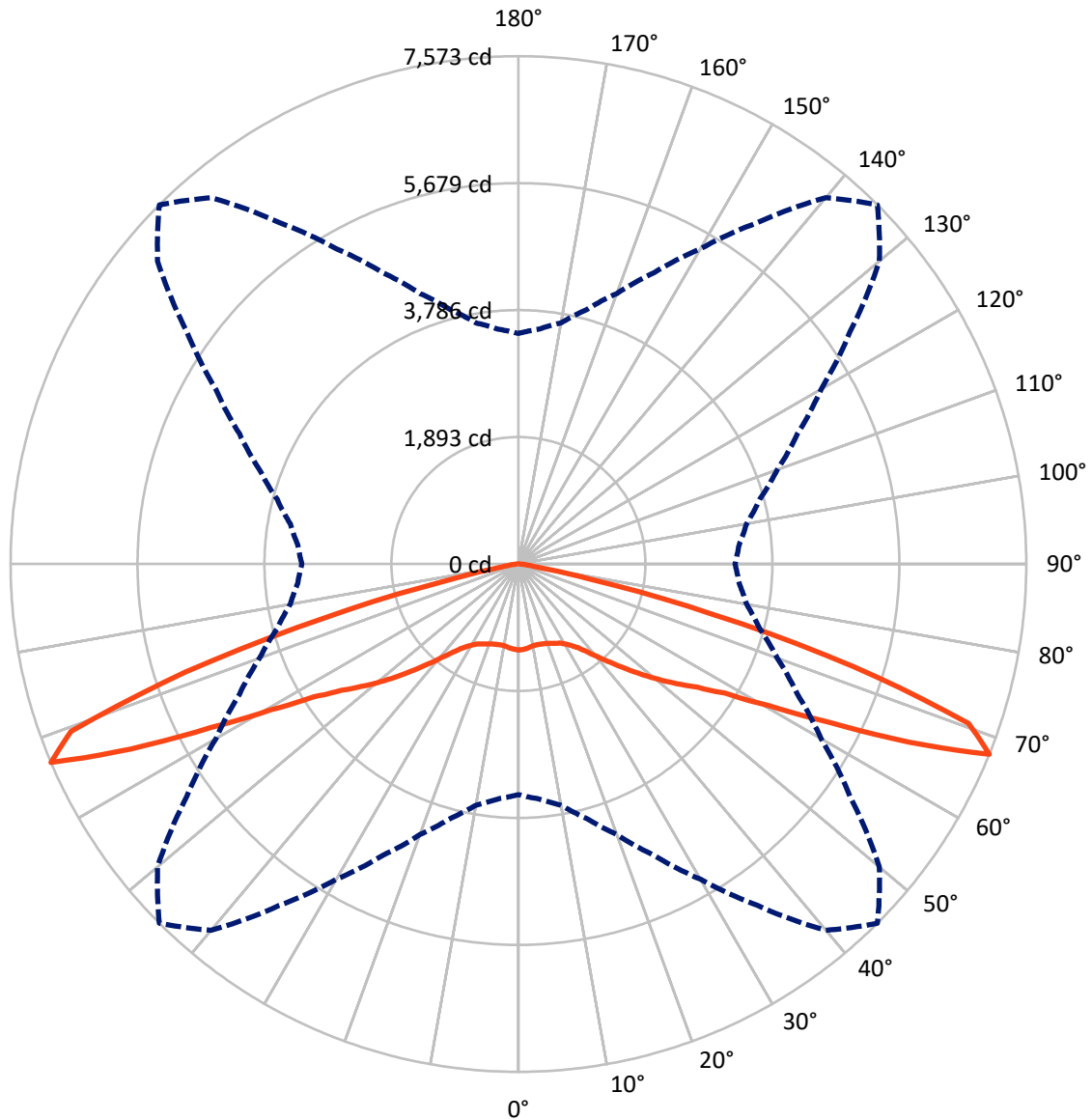
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6433.3	0.0	6433.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6433.3	0.0	6433.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	12866.7	0.0	12866.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.0	0.9
10°-20°	348.2	2.7
20°-30°	592.0	4.6
30°-40°	967.8	7.5
40°-50°	1727.6	13.4
50°-60°	2912.8	22.6
60°-70°	4520.2	35.1
70°-80°	1588.2	12.3
80°-90°	89.8	0.7
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°	12866.7	100.0
0°-180°	12866.7	100.0



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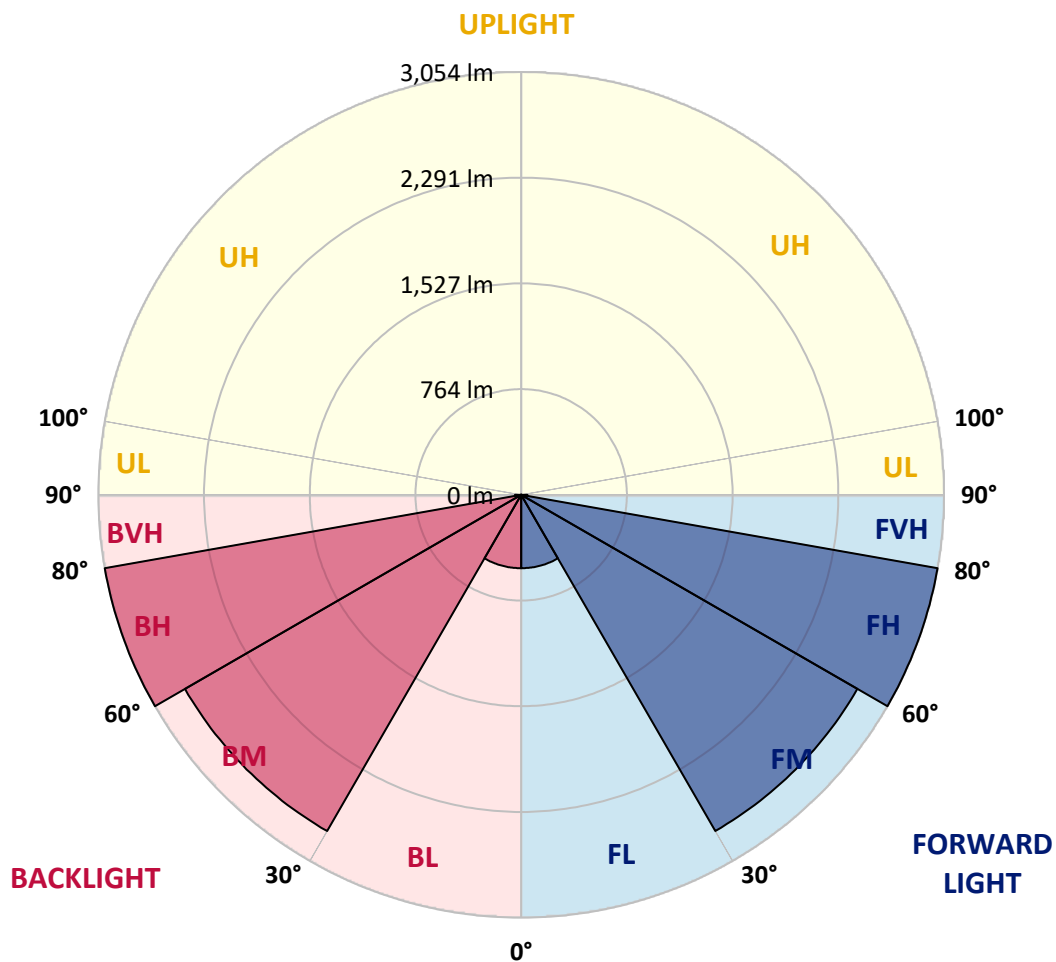
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	530.1	4.1			
FM	(30°-60°)	2804.1	21.8			
FH	(60°-80°)	3054.2	23.7			G2/5000
FVH	(80°-90°)	44.9	0.3			G1/100
BL	(0°-30°)	530.1	4.1	B2/1000		
BM	(30°-60°)	2804.1	21.8	B3/5000		
BH	(60°-80°)	3054.2	23.7	B4/5000		G2/5000
BVH	(80°-90°)	44.9	0.3			G1/100
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°	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3
2.5°	1277.5	1278.7	1278.7	1278.7	1278.1	1278.1	1276.8	1278.1	1277.5	1275.7	1276.3
5°	1266.8	1268.0	1268.0	1267.4	1269.2	1268.6	1266.8	1268.0	1267.4	1266.2	1266.8
7.5°	1251.5	1253.2	1253.2	1252.6	1254.4	1253.8	1252.6	1253.2	1253.2	1251.5	1251.5
10°	1234.3	1235.5	1235.5	1234.9	1237.9	1237.9	1237.3	1239.0	1239.6	1237.9	1236.6
12.5°	1218.3	1220.1	1220.1	1222.4	1225.4	1226.6	1229.6	1231.9	1234.3	1233.7	1231.3
15°	1208.8	1210.0	1212.4	1215.4	1220.1	1224.3	1229.0	1234.3	1239.0	1240.2	1236.6
17.5°	1202.9	1204.7	1208.2	1212.4	1218.9	1226.0	1233.1	1240.2	1246.7	1249.1	1244.9
20°	1201.1	1202.4	1205.9	1213.0	1221.9	1232.6	1242.6	1250.9	1259.8	1262.7	1259.8
22.5°	1204.7	1207.1	1211.2	1219.5	1231.3	1244.9	1256.8	1268.0	1279.3	1284.6	1280.4
25°	1220.7	1223.0	1228.4	1239.0	1252.1	1266.2	1279.8	1292.9	1302.9	1308.3	1305.3
27.5°	1250.3	1253.2	1259.8	1270.4	1284.6	1300.0	1314.8	1325.4	1333.7	1335.5	1331.9
30°	1294.6	1301.2	1308.9	1320.6	1337.2	1350.3	1365.0	1374.5	1384.6	1384.6	1381.6
32.5°	1363.9	1370.3	1378.6	1389.9	1402.9	1417.1	1430.2	1438.5	1449.1	1449.6	1442.6
35°	1467.4	1470.4	1477.4	1484.6	1496.4	1508.9	1520.1	1525.4	1534.3	1534.8	1528.4
37.5°	1604.1	1604.7	1609.4	1611.8	1622.4	1636.0	1646.7	1650.2	1658.5	1657.4	1650.8
40°	1763.3	1766.2	1768.0	1771.5	1782.8	1795.8	1807.0	1808.9	1817.7	1815.9	1807.7
42.5°	1947.3	1948.5	1958.5	1963.9	1974.5	1981.0	1995.3	1997.0	2007.6	2002.9	1993.4
45°	2153.8	2164.5	2173.9	2184.6	2195.8	2203.5	2214.8	2212.3	2219.5	2212.3	2207.0
47.5°	2371.0	2378.7	2399.9	2416.5	2434.8	2441.4	2457.3	2450.3	2457.3	2447.3	2445.5
50°	2610.0	2623.6	2642.0	2660.9	2680.4	2691.1	2711.7	2702.9	2712.4	2702.9	2697.5
52.5°	2845.5	2849.0	2889.3	2917.0	2944.4	2956.7	2969.1	2965.0	2965.6	2965.0	2959.7
55°	3069.2	3077.4	3117.6	3155.5	3202.9	3237.8	3259.1	3256.8	3251.4	3246.0	3237.2
57.5°	3321.2	3329.5	3375.6	3422.4	3476.3	3525.9	3569.2	3613.6	3630.7	3635.5	3615.9
60°	3662.1	3661.4	3723.0	3779.8	3856.7	3930.7	4025.3	4121.8	4232.5	4283.9	4215.9
62.5°	4008.7	4023.0	4111.8	4212.3	4370.9	4525.3	4699.8	4871.5	5046.6	5189.2	5037.7
65°	3967.4	4021.8	4153.8	4381.6	4674.5	5022.4	5398.7	5796.9	6156.6	6404.0	6126.5
67.5°	3438.3	3515.9	3650.2	3927.1	4293.4	4795.2	5427.1	6214.6	7130.0	7572.6	7024.1
70°	2492.2	2579.8	2720.6	2991.0	3353.7	3830.6	4517.0	5462.6	6674.4	7120.6	6516.4
72.5°	1240.2	1287.6	1374.5	1546.7	1821.3	2208.2	2830.7	3739.6	4811.8	5221.1	4669.2
75°	421.3	443.1	458.0	514.2	601.2	753.2	1062.7	1634.9	2494.1	2989.9	2458.6
77.5°	243.2	243.8	253.8	263.9	278.7	295.2	336.7	442.0	764.5	1085.8	791.2
80°	157.4	156.8	165.1	172.8	182.8	191.1	193.4	204.7	236.1	279.9	250.3
82.5°	81.6	91.8	110.1	120.1	139.0	142.6	137.9	133.7	141.4	146.7	150.3
85°	45.0	39.1	58.6	75.7	84.0	85.2	85.2	80.5	83.5	81.6	88.8
87.5°	20.7	18.9	23.1	37.2	39.7	33.8	35.5	31.4	22.5	21.9	24.9
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°	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3	1282.3
2.5°	1276.3	1276.8	1276.8	1278.7	1279.3	1280.4	1281.7	1282.3
5°	1266.2	1268.0	1266.8	1268.6	1268.6	1269.8	1269.8	1270.4
7.5°	1251.5	1253.2	1253.2	1253.2	1252.6	1254.4	1254.4	1254.4
10°	1236.0	1237.3	1236.6	1235.5	1234.3	1236.0	1235.5	1234.9
12.5°	1231.3	1228.4	1226.0	1224.8	1222.4	1223.0	1221.3	1221.3
15°	1234.3	1229.0	1224.8	1223.0	1220.7	1219.5	1218.3	1218.9
17.5°	1242.0	1235.5	1230.1	1227.2	1224.3	1222.4	1220.1	1220.7
20°	1255.6	1247.9	1240.2	1234.3	1229.0	1226.0	1224.3	1223.7
22.5°	1275.7	1264.5	1253.2	1244.3	1237.3	1233.1	1231.3	1230.1
25°	1298.7	1286.4	1273.4	1263.2	1256.2	1250.9	1247.3	1247.3
27.5°	1327.8	1317.8	1305.9	1294.0	1287.6	1282.3	1279.8	1278.7
30°	1376.3	1366.9	1357.4	1346.1	1337.8	1332.5	1328.4	1324.8
32.5°	1438.5	1430.7	1423.0	1414.7	1407.1	1400.0	1393.5	1390.5
35°	1526.0	1520.1	1514.8	1505.3	1502.3	1498.2	1494.6	1491.7
37.5°	1646.7	1644.3	1644.3	1634.3	1631.9	1630.2	1626.6	1627.2
40°	1805.3	1807.7	1804.7	1801.1	1799.4	1794.7	1794.7	1798.8
42.5°	1992.8	1994.7	2001.1	1995.3	2001.7	1995.8	1992.3	1995.3
45°	2210.6	2217.1	2230.1	2224.2	2228.4	2218.3	2205.9	2206.5
47.5°	2455.0	2460.9	2466.2	2462.0	2462.7	2446.1	2429.5	2425.4
50°	2708.8	2711.2	2714.1	2708.3	2709.4	2691.1	2672.2	2672.8
52.5°	2959.7	2971.0	2982.7	2966.8	2963.3	2942.5	2915.9	2905.3
55°	3246.6	3262.6	3249.0	3221.3	3193.4	3165.6	3130.7	3124.8
57.5°	3600.5	3573.3	3530.7	3478.0	3439.6	3400.5	3365.0	3350.3
60°	4092.8	3990.4	3913.5	3835.5	3786.4	3738.4	3691.6	3684.6
62.5°	4788.6	4611.8	4458.4	4296.9	4164.9	4062.0	3979.8	3956.7
65°	5660.8	5242.5	4879.8	4541.3	4247.2	4025.3	3885.7	3824.2
67.5°	6035.9	5209.9	4588.0	4107.6	3723.0	3454.4	3303.5	3228.3
70°	5304.0	4320.6	3644.3	3163.3	2812.9	2526.6	2389.9	2309.4
72.5°	3649.1	2748.5	2173.4	1773.9	1494.0	1254.4	1159.7	1152.7
75°	1638.5	1085.1	747.9	576.3	485.2	421.9	402.3	387.6
77.5°	458.6	339.0	302.4	282.8	263.9	242.0	233.7	235.5
80°	223.1	210.6	202.3	190.0	172.8	154.5	146.2	149.7
82.5°	147.9	146.2	151.5	142.6	117.7	100.0	84.0	76.9
85°	89.9	91.1	92.9	93.5	79.3	55.6	37.8	42.6
87.5°	35.5	40.8	44.4	46.1	43.2	26.6	21.3	21.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)