

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: P200068

Luminaire Tested: **GWC-AF-02-LED-E1-5NQ-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P200068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24141)
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-E1-5NQ-600
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8636.8 lumens
Efficiency: N/A
Efficacy: 130.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

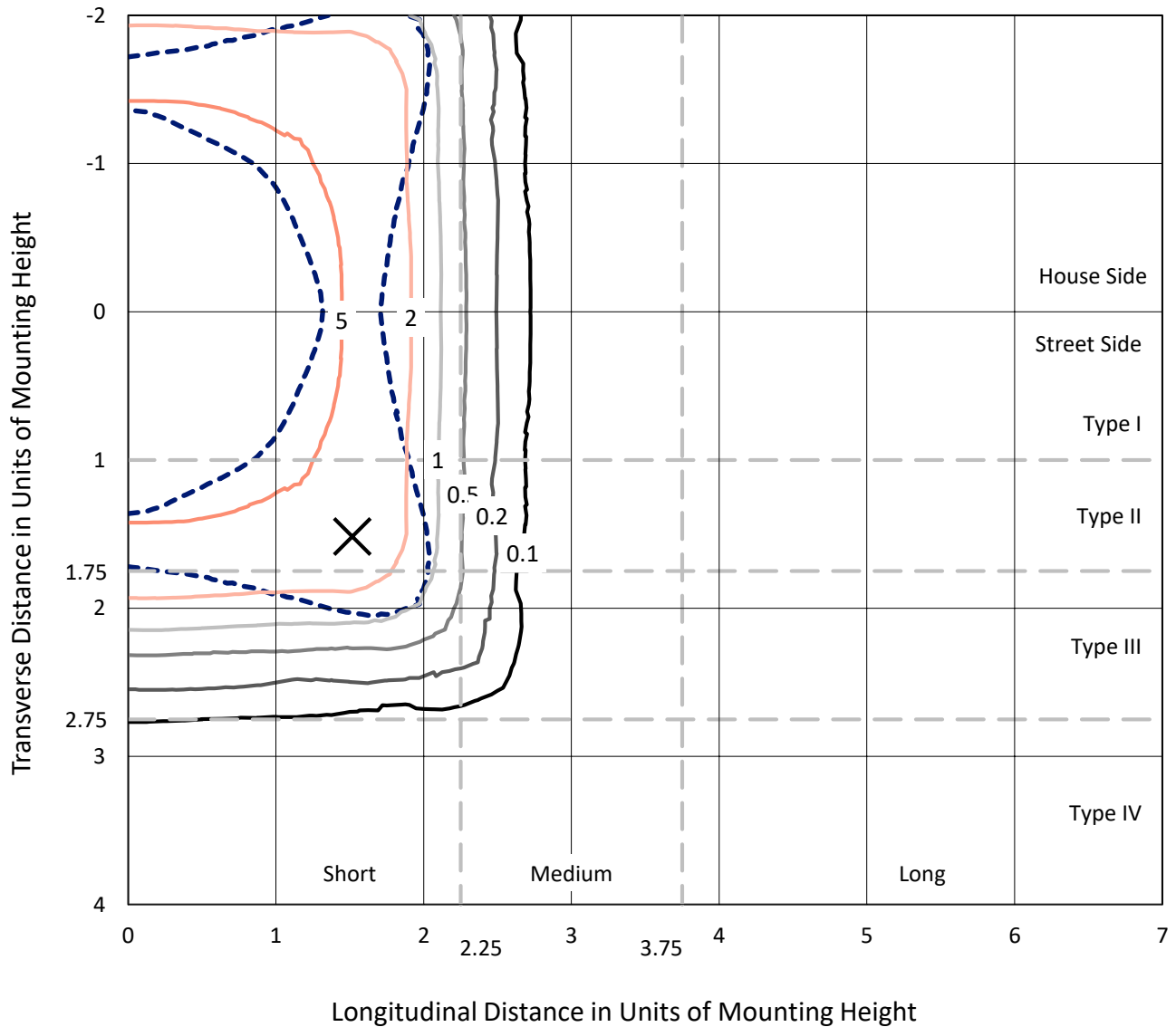
Input Watts (W): 66
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

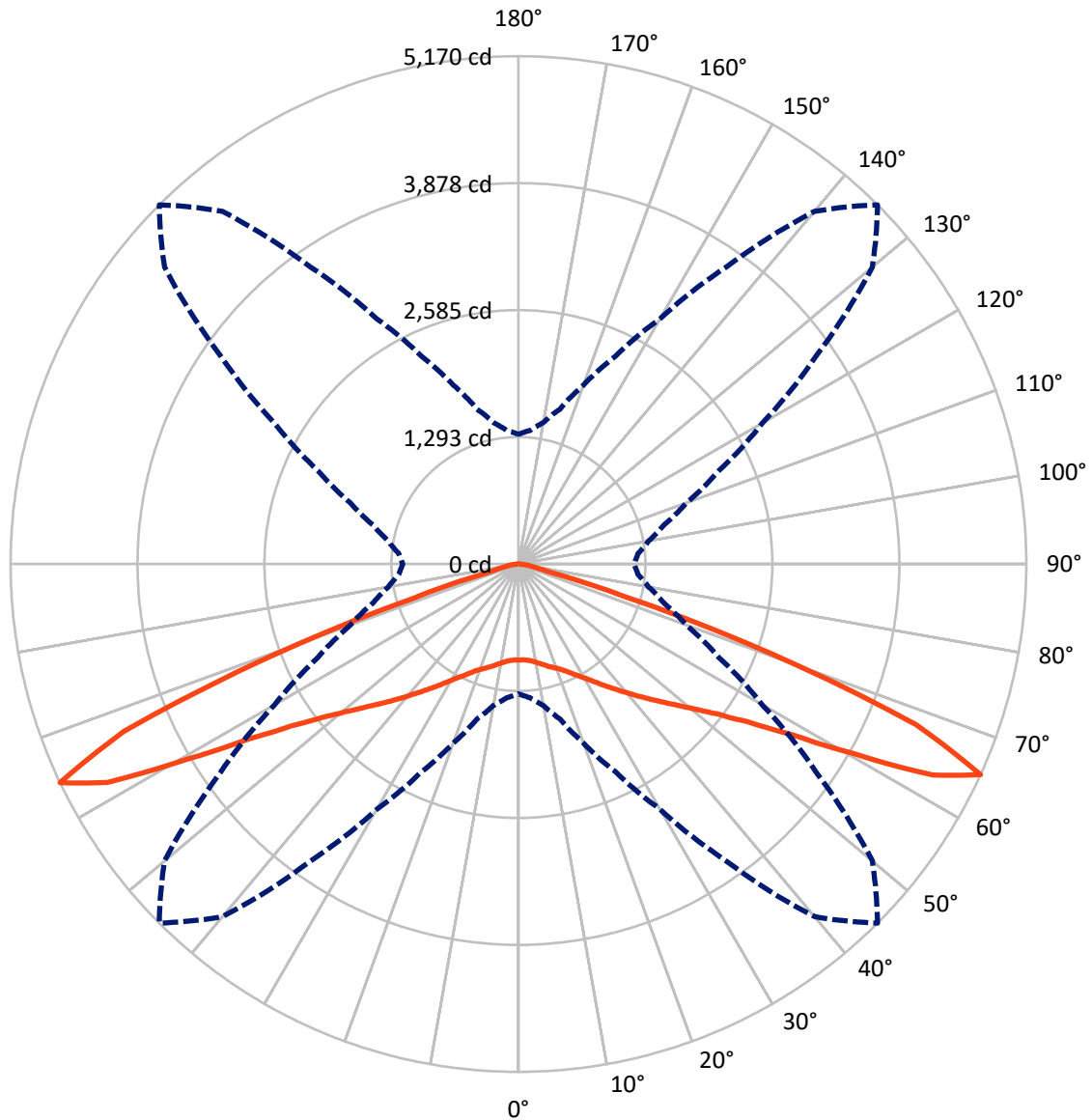
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4318.4	0.0	4318.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4318.4	0.0	4318.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	8636.8	0.0	8636.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.3	1.1
10°-20°	305.5	3.5
20°-30°	571.2	6.6
30°-40°	966.1	11.2
40°-50°	1579.6	18.3
50°-60°	2511.8	29.1
60°-70°	2270.5	26.3
70°-80°	287.3	3.3
80°-90°	49.4	0.6
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°	8636.8	100.0
0°-180°	8636.8	100.0



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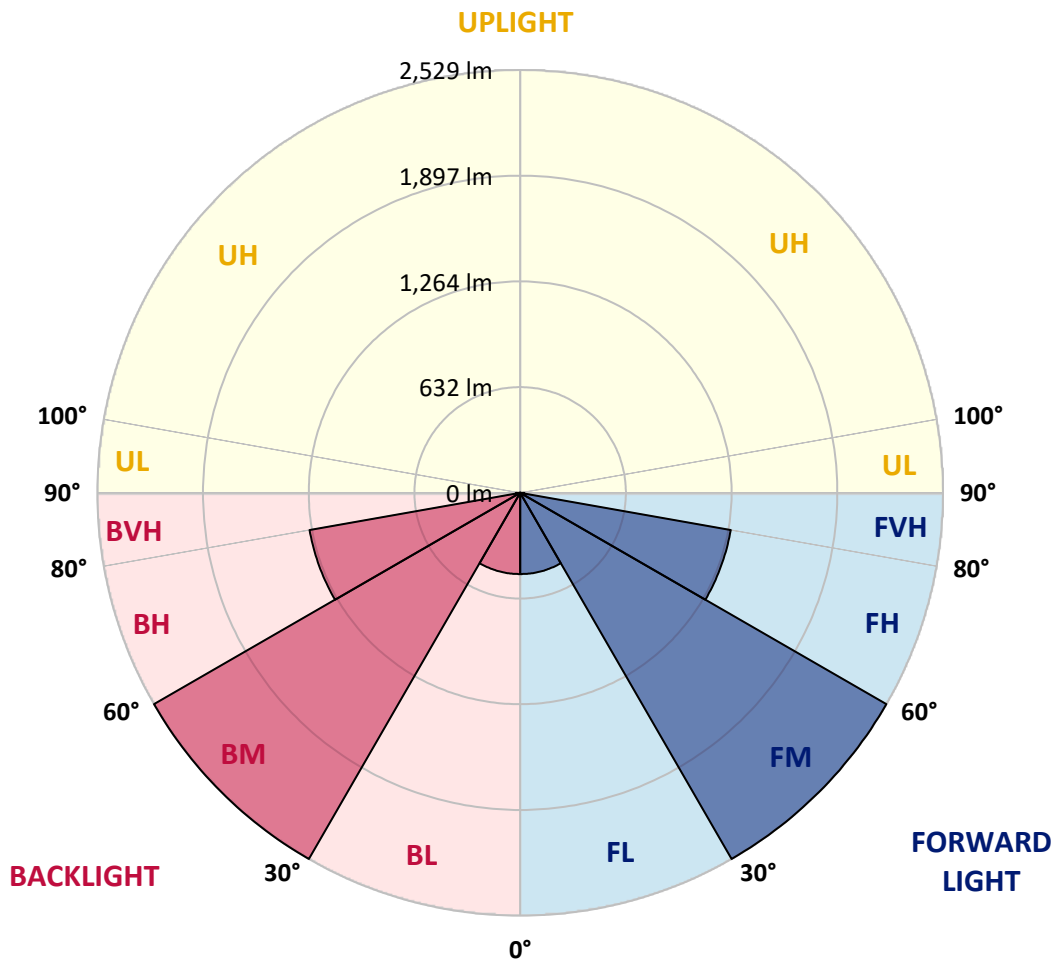
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	486.0	5.6			
FM	(30°-60°)	2528.8	29.3			
FH	(60°-80°)	1278.9	14.8			G1/1800
FVH	(80°-90°)	24.7	0.3			G1/100
BL	(0°-30°)	486.0	5.6	B1/500		
BM	(30°-60°)	2528.8	29.3	B3/5000		
BH	(60°-80°)	1278.9	14.8	B3/2500		G1/1800
BVH	(80°-90°)	24.7	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	977.2	977.2	977.2	977.2	977.2	977.2	977.2	977.2	977.2	977.2	977.2
2.5°	978.0	978.9	979.7	978.9	979.7	978.5	977.6	978.9	977.6	976.4	977.2
5°	986.5	986.9	986.9	985.7	986.9	986.1	984.9	986.5	985.3	984.2	984.9
7.5°	1000.8	1002.3	1001.2	999.9	1000.8	999.9	999.1	999.5	999.1	997.9	998.3
10°	1019.7	1020.9	1020.1	1019.7	1020.5	1020.1	1019.4	1019.0	1019.4	1018.1	1018.1
12.5°	1042.8	1042.4	1042.0	1042.4	1043.6	1043.6	1043.2	1043.6	1044.4	1044.8	1044.0
15°	1065.4	1066.2	1066.2	1066.2	1068.7	1070.7	1072.0	1072.7	1074.3	1074.7	1073.1
17.5°	1093.7	1093.7	1093.3	1093.7	1096.2	1099.4	1100.6	1102.2	1103.9	1105.1	1103.0
20°	1125.3	1126.1	1126.1	1126.9	1130.2	1133.8	1133.8	1134.6	1133.8	1134.6	1133.4
22.5°	1163.7	1166.2	1166.2	1166.6	1169.7	1174.2	1173.0	1174.2	1172.2	1173.8	1172.2
25°	1213.8	1217.5	1216.7	1216.7	1219.2	1222.0	1222.4	1224.8	1224.4	1226.4	1225.2
27.5°	1270.5	1276.1	1277.8	1277.4	1279.0	1281.9	1282.7	1285.4	1283.9	1285.4	1284.6
30°	1338.4	1340.9	1344.2	1345.4	1347.3	1350.2	1350.2	1350.6	1348.6	1351.0	1352.2
32.5°	1408.8	1413.3	1416.6	1423.8	1427.4	1429.5	1429.1	1429.9	1427.8	1431.1	1433.6
35°	1501.9	1505.2	1510.4	1516.0	1520.9	1520.5	1519.3	1519.7	1519.7	1522.6	1524.9
37.5°	1613.9	1614.7	1621.6	1629.7	1632.1	1629.7	1622.4	1620.8	1617.2	1620.8	1624.9
40°	1732.5	1735.2	1749.0	1754.3	1755.5	1751.1	1740.6	1734.5	1726.3	1730.8	1736.5
42.5°	1856.7	1862.3	1874.9	1884.2	1888.2	1885.3	1870.8	1861.5	1850.9	1853.4	1859.0
45°	1994.1	2001.0	2018.8	2027.7	2035.4	2031.0	2016.8	2002.6	1986.1	1987.3	1996.2
47.5°	2147.9	2154.7	2177.8	2192.8	2196.8	2196.0	2180.2	2160.8	2138.2	2137.4	2145.0
50°	2320.2	2327.0	2355.8	2378.9	2390.5	2389.3	2370.7	2343.3	2315.8	2316.2	2325.9
52.5°	2488.4	2496.9	2526.9	2566.5	2589.6	2606.2	2594.8	2568.9	2535.4	2536.2	2545.1
55°	2646.2	2660.4	2694.8	2748.6	2791.4	2838.0	2851.3	2850.5	2830.2	2835.9	2844.8
57.5°	2722.7	2743.7	2796.6	2881.7	2969.0	3063.6	3143.7	3203.6	3229.0	3267.5	3258.6
60°	2577.8	2611.4	2689.4	2814.4	2987.2	3184.5	3396.1	3602.8	3779.2	3912.3	3835.8
62.5°	2110.7	2154.3	2249.0	2409.2	2670.4	2986.4	3391.3	3879.8	4412.2	4733.4	4504.1
65°	1320.6	1365.9	1462.2	1633.8	1939.5	2332.3	2881.7	3691.4	4686.0	5170.2	4703.4
67.5°	515.0	539.6	591.8	701.4	931.2	1280.6	1831.9	2750.9	3940.6	4364.9	3867.4
70°	258.1	260.4	270.2	290.4	339.8	441.3	671.5	1275.4	2259.9	2729.5	2178.6
72.5°	186.5	186.9	191.7	200.6	216.4	239.1	282.7	390.4	735.0	1123.3	688.9
75°	142.8	144.4	147.2	152.1	160.6	172.0	187.7	224.9	278.7	323.2	271.8
77.5°	110.1	113.2	115.3	119.7	125.0	132.7	137.1	151.3	175.9	185.3	182.4
80°	83.8	86.5	91.0	94.6	98.3	101.9	100.4	106.8	119.7	127.5	123.4
82.5°	53.4	56.7	69.6	72.8	74.5	76.8	74.1	74.5	80.1	84.9	80.1
85°	34.4	36.4	44.1	48.2	48.6	50.1	48.9	46.1	46.1	42.0	47.4
87.5°	15.8	16.2	19.8	23.4	24.2	21.9	21.5	20.7	16.6	15.8	17.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	977.2	977.2	977.2	977.2	977.2	977.2	977.2	977.2
2.5°	976.8	977.6	978.0	979.3	979.7	979.7	980.1	980.9
5°	984.5	985.7	986.1	987.8	988.2	987.8	988.6	989.0
7.5°	998.3	1000.3	1001.2	1002.7	1001.6	1003.1	1003.5	1003.5
10°	1018.6	1020.5	1020.9	1022.5	1021.7	1022.5	1022.5	1021.7
12.5°	1045.3	1045.7	1044.4	1045.7	1044.0	1044.8	1043.6	1042.8
15°	1074.7	1073.5	1070.7	1070.7	1068.3	1068.7	1068.3	1067.9
17.5°	1103.5	1101.0	1099.1	1098.2	1096.2	1095.8	1094.6	1094.6
20°	1135.0	1133.8	1132.6	1131.0	1128.9	1126.9	1126.5	1127.3
22.5°	1173.0	1172.6	1172.6	1171.8	1169.0	1167.0	1165.8	1165.8
25°	1224.0	1220.4	1220.4	1220.0	1218.7	1217.5	1215.1	1216.3
27.5°	1281.5	1279.4	1281.0	1280.6	1279.4	1279.4	1277.8	1277.8
30°	1352.2	1351.4	1353.9	1351.8	1347.7	1347.3	1345.8	1343.7
32.5°	1434.0	1433.2	1436.7	1434.4	1427.8	1424.3	1421.0	1419.3
35°	1524.9	1525.3	1529.8	1528.2	1520.9	1518.5	1512.8	1512.0
37.5°	1624.4	1630.9	1638.6	1640.2	1634.2	1632.5	1626.5	1623.2
40°	1741.4	1749.9	1761.5	1764.4	1757.9	1756.7	1748.2	1743.7
42.5°	1866.0	1880.5	1895.0	1897.5	1891.0	1884.6	1876.4	1873.2
45°	2005.1	2022.5	2041.5	2046.3	2036.6	2028.9	2018.4	2018.4
47.5°	2161.2	2183.1	2204.5	2217.9	2209.0	2200.9	2188.3	2180.2
50°	2345.6	2375.6	2403.5	2417.2	2403.1	2387.8	2365.9	2358.6
52.5°	2577.0	2609.3	2633.7	2626.3	2604.5	2583.1	2559.2	2549.5
55°	2872.3	2883.2	2883.2	2855.8	2812.0	2776.1	2738.4	2725.9
57.5°	3241.6	3199.6	3134.8	3052.7	2949.6	2859.8	2799.1	2770.4
60°	3675.7	3473.4	3244.8	3020.4	2835.9	2683.8	2593.6	2552.4
62.5°	3964.9	3435.8	2977.9	2617.5	2352.2	2168.9	2044.3	1995.8
65°	3705.5	2865.4	2252.2	1821.1	1531.8	1345.4	1222.0	1176.7
67.5°	2714.2	1795.6	1199.3	859.6	629.8	502.4	451.8	430.8
70°	1218.3	632.2	387.5	302.6	260.9	239.5	230.2	226.9
72.5°	367.2	265.8	224.1	202.2	185.7	175.1	167.5	166.6
75°	221.7	184.4	163.8	150.9	140.3	131.9	127.9	126.6
77.5°	154.9	135.5	125.8	116.5	108.4	101.9	98.3	95.4
80°	108.8	99.5	95.0	89.8	84.5	78.5	73.2	70.8
82.5°	72.8	70.8	70.8	67.5	63.1	57.4	47.0	44.5
85°	47.0	46.5	47.4	46.1	42.9	36.8	30.4	28.7
87.5°	21.9	22.2	24.7	24.2	23.4	19.4	15.3	14.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)