

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: STREETWORKS

Report Number: P268490

Luminaire Tested: **GAN-AF-05-LED-U-5WQ-7027-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268490
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: STREETWORKS
Catalog Number: GAN-AF-05-LED-U-5WQ-7027-600
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17937.5 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

Input Watts (W): 162
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: 28.75 FT

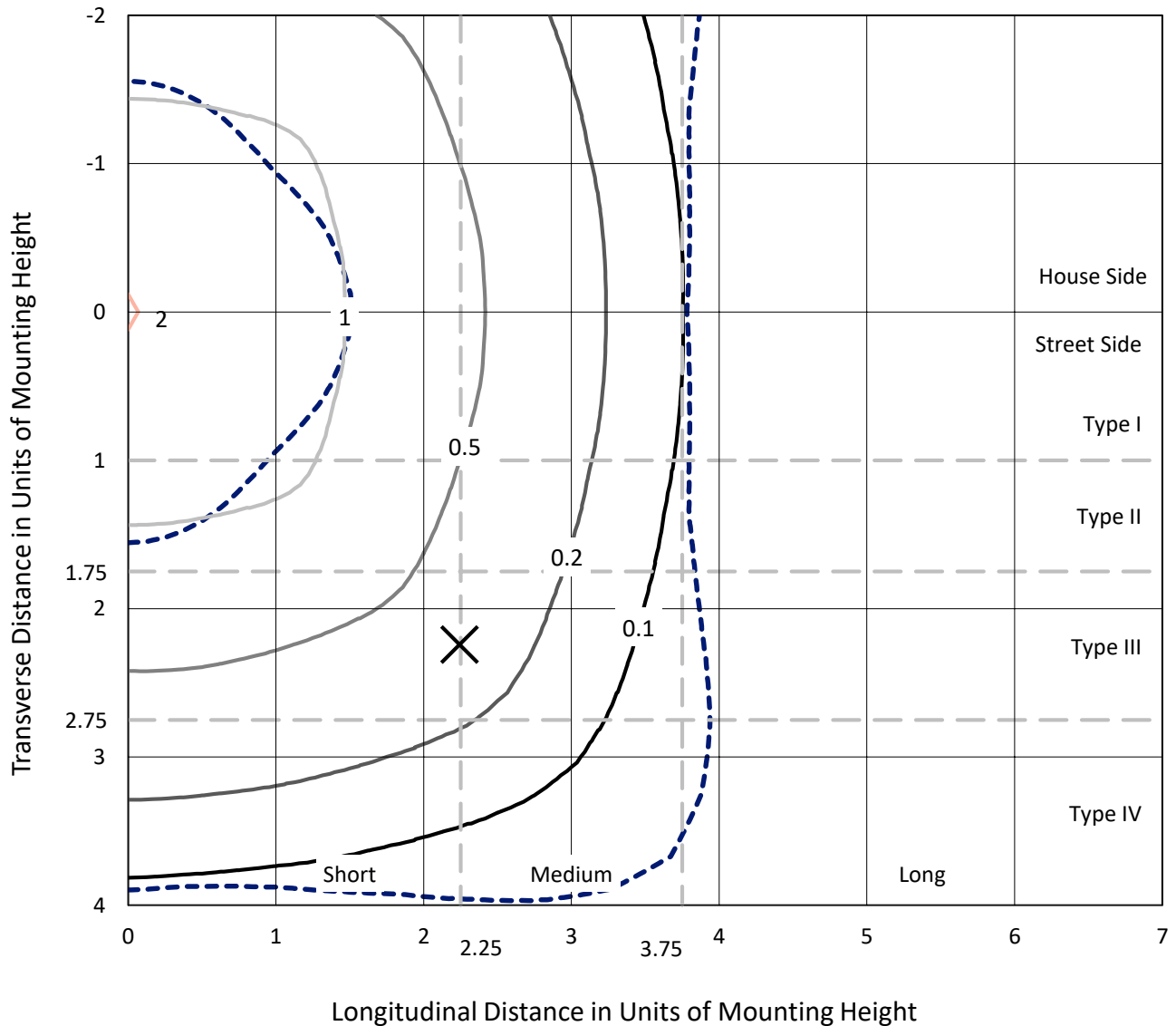


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

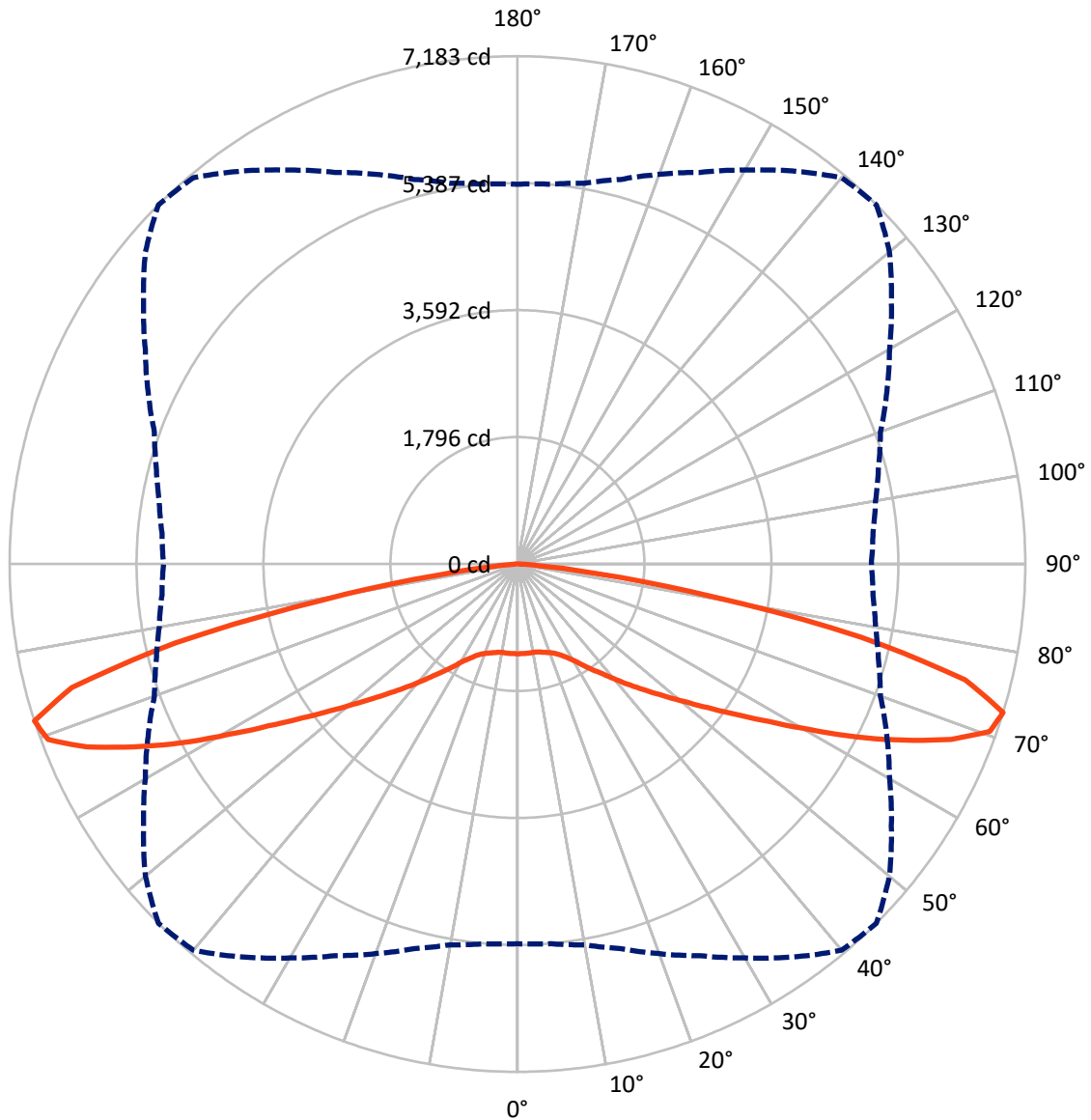


Based on 25 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - Semi-Cutoff

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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	8968.8	0.0	8968.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8968.8	0.0	8968.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	17937.5	0.0	17937.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	121.3	0.7
10°-20°	368.4	2.1
20°-30°	673.2	3.8
30°-40°	1160.7	6.5
40°-50°	1984.2	11.1
50°-60°	3216.1	17.9
60°-70°	5335.5	29.7
70°-80°	4699.3	26.2
80°-90°	378.9	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°	17937.5	100.0
0°-180°	17937.5	100.0



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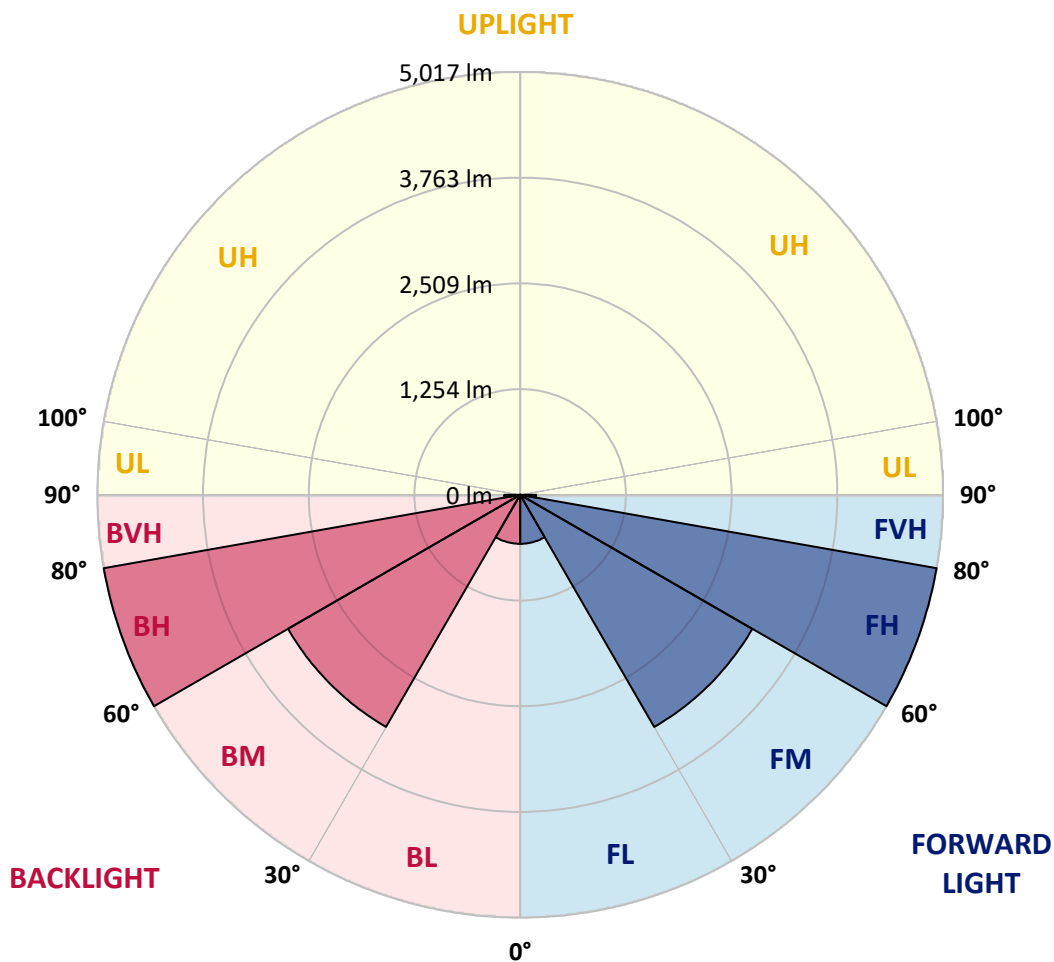
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	581.4	3.2			
FM	(30°-60°)	3180.5	17.7			
FH	(60°-80°)	5017.4	28.0			G3/7500
FVH	(80°-90°)	189.4	1.1			G2/225
BL	(0°-30°)	581.4	3.2	B2/1000		
BM	(30°-60°)	3180.5	17.7	B3/5000		
BH	(60°-80°)	5017.4	28.0	B5		G3/7500
BVH	(80°-90°)	189.4	1.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3
2.5°	1270.3	1271.1	1271.9	1271.1	1271.1	1270.3	1269.5	1270.3	1269.5	1267.8	1268.5
5°	1274.3	1276.0	1276.0	1274.3	1275.2	1274.3	1272.7	1273.5	1271.9	1269.5	1269.5
7.5°	1279.2	1280.2	1280.2	1278.5	1279.2	1277.7	1276.0	1275.2	1273.5	1270.3	1267.8
10°	1286.7	1287.5	1286.7	1285.0	1285.0	1282.6	1278.5	1276.9	1273.5	1268.5	1266.2
12.5°	1294.9	1295.7	1294.9	1293.3	1292.5	1288.3	1285.0	1282.6	1280.2	1276.0	1271.9
15°	1306.5	1308.1	1306.5	1303.3	1300.7	1297.4	1295.7	1296.6	1297.4	1294.1	1290.0
17.5°	1327.9	1328.7	1326.2	1318.8	1315.5	1312.2	1312.2	1314.0	1316.3	1314.7	1310.5
20°	1367.3	1364.9	1359.1	1350.1	1345.9	1340.2	1339.4	1340.2	1340.2	1339.4	1336.0
22.5°	1416.6	1415.1	1407.6	1396.1	1390.3	1387.2	1382.1	1378.0	1377.2	1374.8	1371.4
25°	1475.9	1475.0	1466.0	1456.2	1452.1	1448.0	1443.8	1438.0	1433.2	1427.3	1424.2
27.5°	1551.6	1548.3	1535.2	1530.3	1524.5	1522.0	1516.2	1509.6	1505.6	1498.2	1494.1
30°	1634.7	1634.7	1624.0	1622.3	1622.3	1616.6	1610.0	1598.5	1591.1	1583.7	1581.2
32.5°	1717.7	1718.6	1707.9	1711.2	1713.6	1717.7	1719.4	1715.4	1710.5	1709.6	1704.7
35°	1837.9	1834.6	1824.0	1826.4	1825.5	1824.7	1824.7	1833.8	1835.4	1837.2	1827.2
37.5°	1986.8	1986.8	1976.1	1976.1	1971.2	1966.3	1959.7	1965.4	1974.5	1977.0	1970.4
40°	2157.1	2162.8	2149.7	2148.9	2150.5	2134.9	2127.5	2136.6	2142.3	2152.2	2144.9
42.5°	2358.0	2353.7	2340.7	2338.9	2329.9	2325.0	2318.3	2325.8	2334.9	2341.4	2343.9
45°	2550.4	2547.1	2532.3	2532.3	2523.2	2519.1	2522.4	2534.7	2538.9	2548.0	2556.9
47.5°	2740.4	2736.2	2726.4	2730.6	2731.3	2738.8	2749.5	2761.0	2772.4	2784.8	2789.0
50°	2934.7	2935.4	2924.7	2934.7	2946.9	2967.6	2996.2	3015.3	3039.1	3054.6	3059.6
52.5°	3111.5	3114.8	3126.3	3149.3	3174.0	3214.3	3263.7	3309.7	3349.2	3375.7	3373.9
55°	3323.6	3328.7	3356.6	3396.1	3436.5	3497.3	3570.6	3652.0	3717.8	3755.6	3731.7
57.5°	3595.2	3605.9	3637.1	3690.6	3750.8	3829.7	3930.1	4052.7	4154.8	4205.7	4167.0
60°	3968.0	3974.6	4012.3	4071.6	4144.1	4241.8	4376.0	4540.6	4684.5	4751.9	4707.5
62.5°	4459.0	4471.5	4501.9	4562.0	4636.0	4747.1	4910.8	5116.3	5295.8	5389.6	5289.2
65°	5045.7	5085.1	5110.6	5171.5	5240.6	5358.3	5529.3	5750.0	5942.4	6004.1	5888.1
67.5°	5626.4	5660.9	5705.4	5775.5	5845.4	5977.9	6136.5	6350.5	6561.8	6617.9	6437.7
70°	5880.8	5900.4	5969.5	6064.9	6199.2	6355.4	6538.9	6779.1	7040.7	7086.8	6858.1
72.5°	5371.4	5391.2	5468.5	5630.5	5864.2	6112.6	6432.8	6785.6	7131.3	7183.0	6867.9
75°	4062.6	4030.4	4144.8	4359.6	4674.6	5020.9	5468.5	5974.4	6473.8	6538.9	6162.9
77.5°	2099.6	2095.4	2181.9	2448.4	2824.4	3218.4	3711.2	4282.9	4771.6	4969.2	4663.1
80°	591.5	598.1	639.2	771.7	991.4	1276.0	1661.1	2196.6	2596.5	2800.5	2629.3
82.5°	232.0	250.1	265.7	290.4	319.2	361.2	482.1	717.3	962.5	1150.1	942.1
85°	83.2	88.8	125.9	148.8	151.4	159.5	181.7	212.3	255.8	305.2	250.9
87.5°	31.4	34.6	40.3	66.7	65.8	60.0	73.2	76.5	57.6	52.6	64.9
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°	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3	1270.3
2.5°	1267.0	1267.8	1267.8	1268.5	1269.5	1269.5	1271.1	1271.1
5°	1267.8	1267.8	1266.2	1267.0	1266.2	1266.2	1267.0	1267.0
7.5°	1266.2	1265.4	1263.6	1262.8	1261.2	1261.2	1261.2	1261.2
10°	1263.6	1262.8	1261.2	1260.4	1259.6	1259.6	1259.6	1259.6
12.5°	1270.3	1267.8	1266.2	1265.4	1265.4	1265.4	1265.4	1265.4
15°	1287.5	1281.8	1277.7	1277.7	1278.5	1280.2	1280.2	1281.8
17.5°	1308.9	1302.4	1298.2	1294.9	1296.6	1299.0	1300.7	1302.4
20°	1334.4	1331.2	1325.4	1322.0	1322.0	1325.4	1327.1	1327.9
22.5°	1369.8	1367.3	1364.9	1360.8	1360.8	1362.4	1365.8	1365.8
25°	1422.5	1420.8	1419.1	1415.9	1415.1	1415.1	1416.6	1418.3
27.5°	1488.3	1489.1	1487.5	1486.7	1484.2	1483.3	1485.7	1485.0
30°	1576.3	1580.4	1584.5	1581.2	1577.2	1574.6	1572.3	1568.9
32.5°	1695.6	1690.7	1687.3	1681.5	1674.3	1667.7	1662.8	1657.0
35°	1808.3	1800.1	1796.8	1801.7	1800.9	1796.8	1791.0	1786.1
37.5°	1946.4	1944.9	1946.4	1955.6	1954.0	1958.0	1946.4	1945.6
40°	2121.0	2122.5	2134.2	2144.9	2150.5	2156.3	2149.7	2143.1
42.5°	2323.3	2322.5	2326.6	2341.4	2351.4	2358.0	2343.9	2342.2
45°	2537.3	2531.5	2534.7	2547.1	2556.9	2564.4	2548.8	2548.8
47.5°	2772.4	2762.6	2752.0	2765.9	2771.7	2776.7	2764.3	2760.2
50°	3035.0	3014.4	2991.4	2997.1	2997.1	2995.5	2979.9	2979.0
52.5°	3336.0	3298.2	3256.3	3240.6	3231.7	3221.7	3194.6	3181.3
55°	3682.4	3625.6	3559.9	3519.5	3498.1	3471.1	3425.7	3413.4
57.5°	4087.2	3998.4	3884.8	3835.5	3787.8	3743.2	3693.1	3679.2
60°	4566.9	4436.0	4285.5	4194.1	4142.4	4099.5	4047.8	4045.2
62.5°	5101.7	4895.1	4724.7	4642.5	4604.7	4566.9	4517.4	4524.0
65°	5645.4	5429.9	5270.3	5203.6	5168.3	5137.0	5087.6	5094.9
67.5°	6181.7	5983.5	5808.4	5740.0	5700.6	5660.9	5616.7	5624.0
70°	6566.8	6320.8	6123.3	5972.0	5877.4	5770.4	5701.4	5684.0
72.5°	6456.6	6077.4	5763.9	5463.6	5287.6	5144.4	5047.2	5005.4
75°	5587.7	5069.6	4666.3	4297.9	4090.5	3921.8	3799.2	3722.8
77.5°	4149.7	3567.3	3090.9	2666.3	2330.7	2105.3	1946.4	1843.7
80°	2271.5	1727.7	1262.8	887.6	652.3	542.1	478.7	448.3
82.5°	707.5	456.6	336.4	290.4	269.9	258.4	239.4	208.9
85°	225.5	197.4	183.4	175.2	167.1	145.6	100.4	91.3
87.5°	87.2	89.7	88.8	83.9	85.6	61.8	49.3	43.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)