

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: STREETWORKS

Report Number: P387048

Luminaire Tested: GAW-SA2D-730-U-T4W-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387048
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA2D-730-U-T4W-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10689 lumens
Efficiency: N/A
Efficacy: 82.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

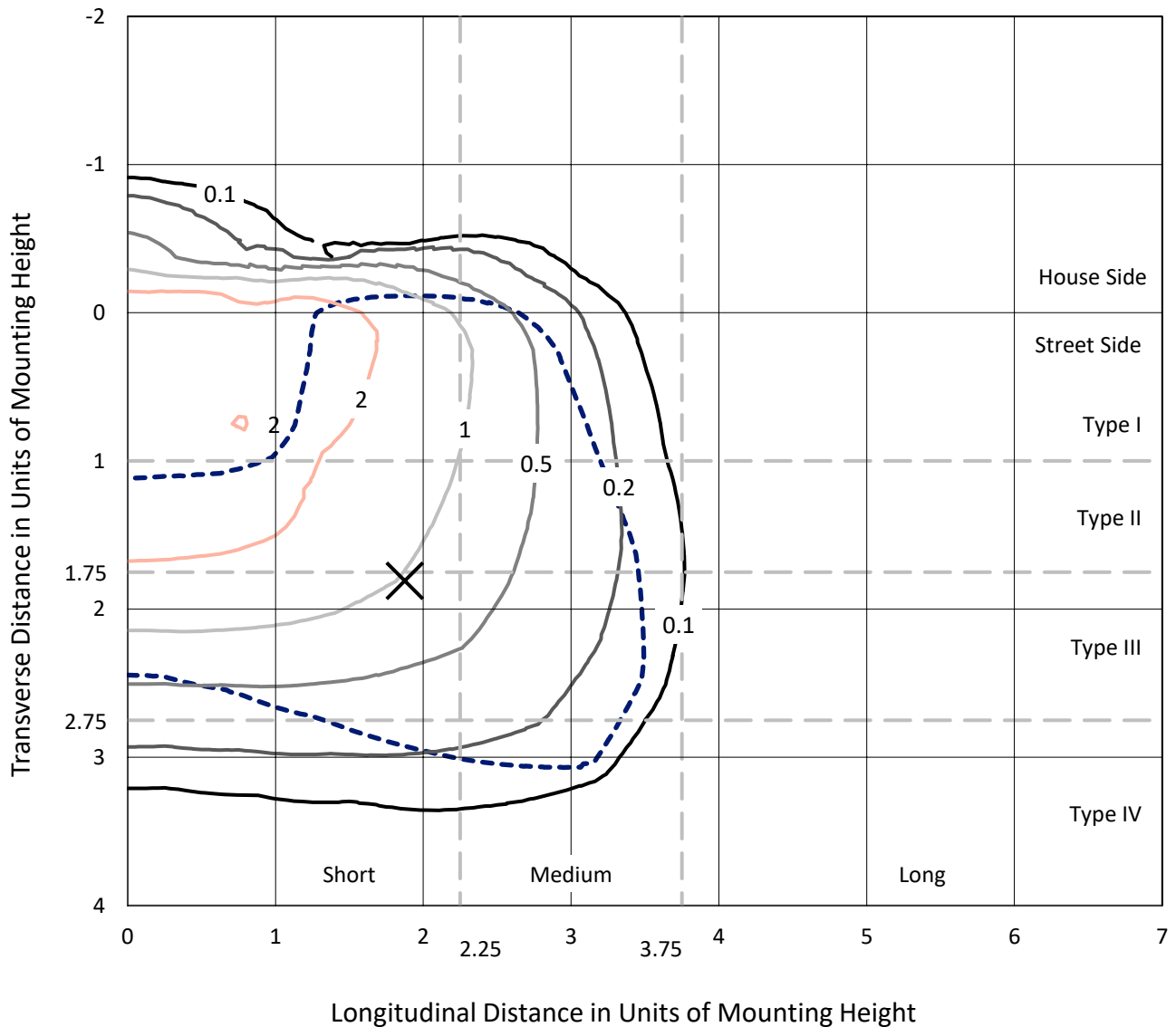
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

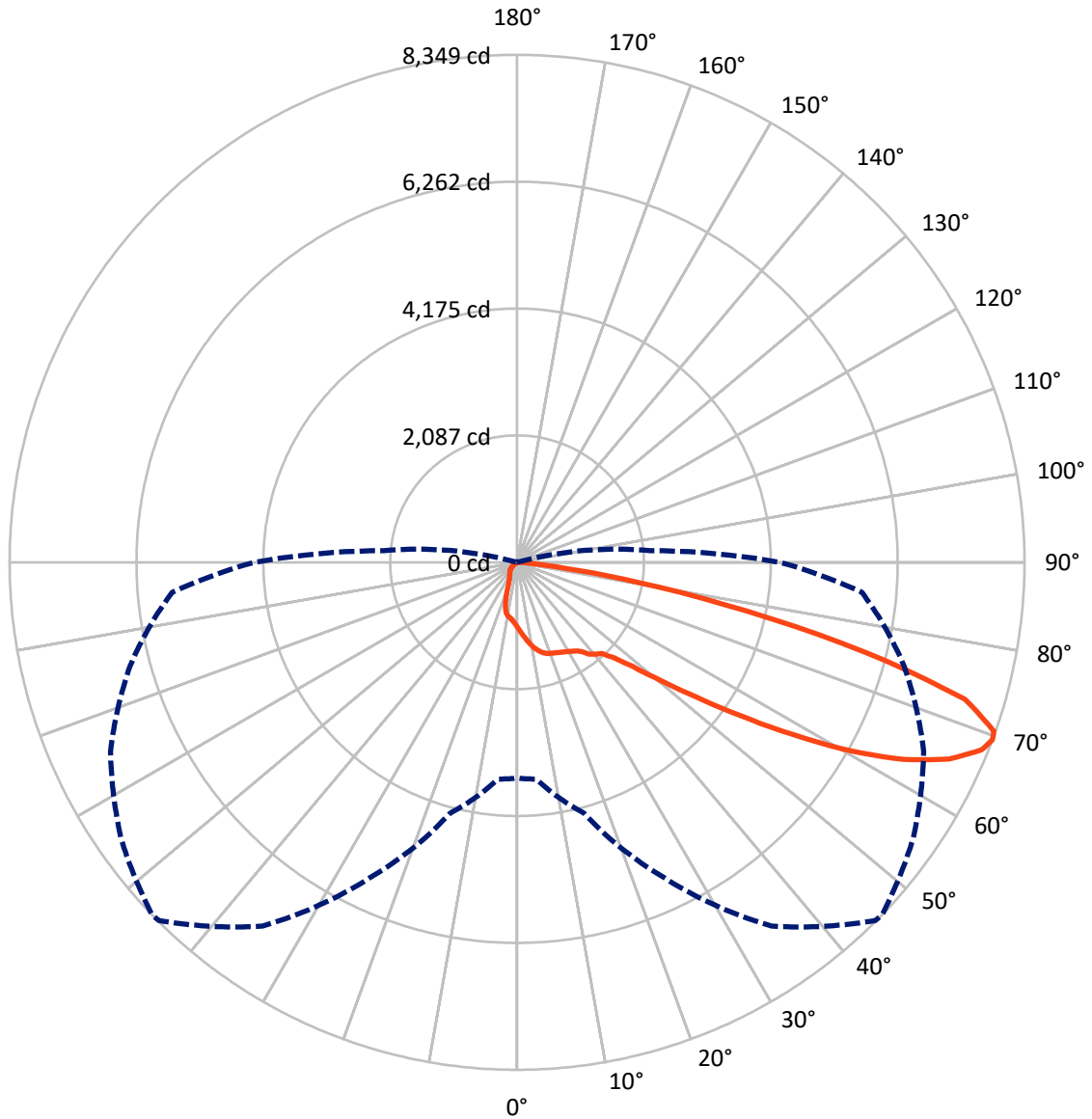
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 46-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1097.0	0.0	1097.0
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	9592.0	0.0	9592.0
	% Fixture	89.7	0.0	89.7
Total	Lumens	10689.0	0.0	10689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.6	1.0
10°-20°	323.4	3.0
20°-30°	508.6	4.8
30°-40°	729.3	6.8
40°-50°	1260.6	11.8
50°-60°	2490.4	23.3
60°-70°	3480.5	32.6
70°-80°	1681.5	15.7
80°-90°	108.1	1.0
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°	10689.0	100.0
0°-180°	10689.0	100.0

Coefficient of Utilization

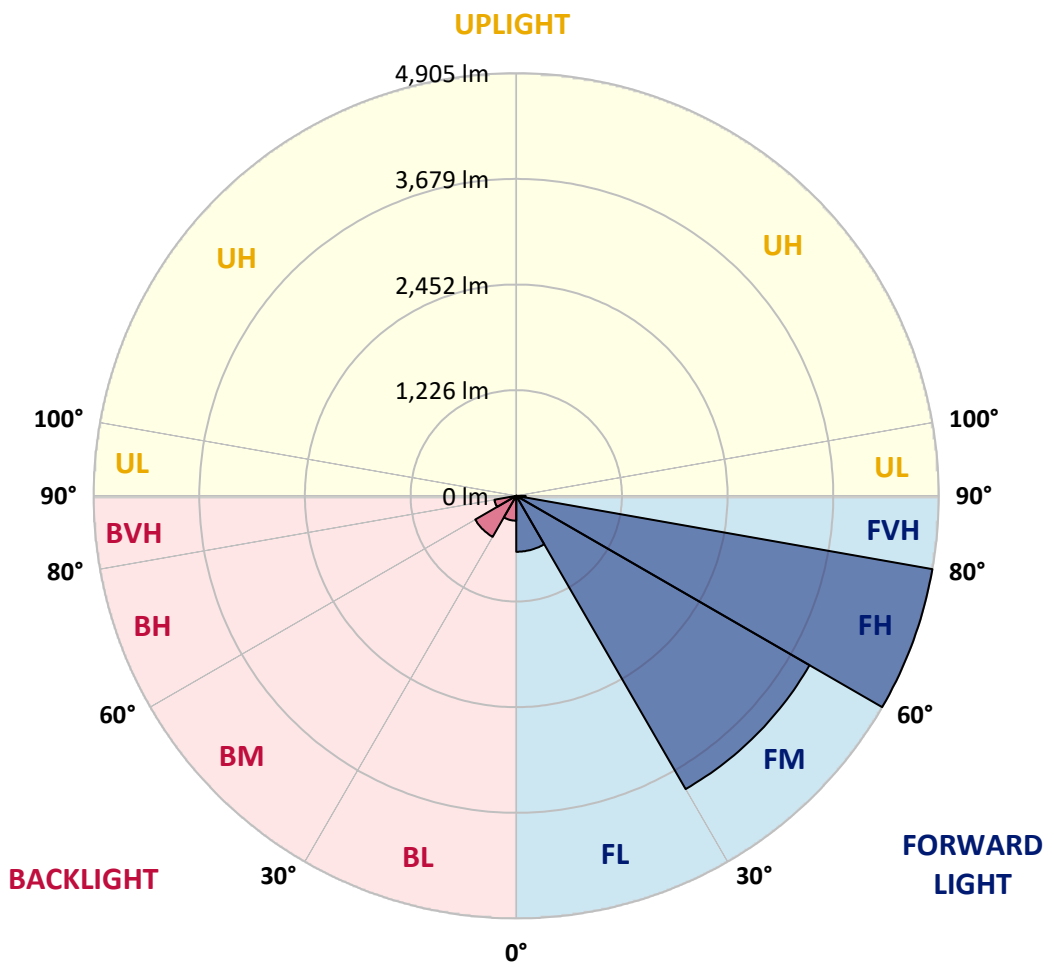


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	649.5	6.1			
FM (30°-60°)	3930.6	36.8			
FH (60°-80°)	4904.8	45.9			G2/5000
FVH (80°-90°)	107.2	1.0			G2/225
BL (0°-30°)	289.1	2.7	B1/500		
BM (30°-60°)	549.7	5.1	B1/1000		
BH (60°-80°)	257.2	2.4	B1/500		G1/500
BVH (80°-90°)	0.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0
2.5°	1189.8	1188.3	1181.3	1178.2	1161.2	1151.2	1147.2	1134.6	1116.6	1098.6	1078.5
5°	1325.1	1324.6	1311.6	1299.0	1267.0	1236.9	1231.4	1202.3	1161.7	1123.6	1085.5
7.5°	1463.4	1456.9	1443.9	1419.8	1373.2	1325.1	1320.6	1279.5	1221.8	1166.7	1112.1
10°	1580.7	1576.7	1559.6	1523.1	1468.4	1413.8	1408.3	1357.7	1292.5	1224.9	1155.2
12.5°	1671.9	1668.9	1646.3	1600.7	1542.6	1486.0	1478.4	1433.3	1363.7	1288.0	1205.8
15°	1727.5	1726.0	1698.5	1649.8	1592.7	1543.6	1537.1	1497.5	1432.8	1353.7	1260.9
17.5°	1740.6	1741.1	1712.5	1663.4	1616.3	1581.2	1576.2	1546.1	1492.0	1413.3	1316.1
20°	1711.5	1717.5	1691.9	1649.3	1620.3	1601.7	1597.7	1579.7	1534.1	1459.9	1360.2
22.5°	1670.4	1673.4	1655.9	1627.3	1615.3	1618.8	1616.8	1606.7	1568.2	1500.0	1403.8
25°	1645.3	1645.3	1634.8	1610.8	1618.8	1640.3	1640.8	1638.8	1608.3	1549.1	1456.9
27.5°	1644.3	1641.3	1629.3	1611.3	1633.3	1666.4	1668.4	1681.9	1662.9	1608.8	1523.1
30°	1684.4	1680.9	1655.4	1631.8	1659.9	1695.5	1700.5	1730.0	1720.5	1673.4	1596.7
32.5°	1778.1	1765.6	1709.0	1670.4	1691.4	1734.0	1740.6	1787.7	1802.7	1753.1	1667.9
35°	1906.4	1866.9	1785.2	1743.6	1745.6	1790.2	1796.2	1865.4	1910.0	1826.3	1723.0
37.5°	2083.4	2063.8	1931.0	1819.7	1828.8	1896.4	1914.0	1989.1	1976.6	1866.4	1785.7
40°	2471.3	2440.7	2299.4	2033.2	1908.5	1982.6	1988.1	2028.2	2029.2	1957.1	1916.0
42.5°	2999.5	2987.0	2838.1	2420.6	2065.3	2040.3	2050.3	2117.9	2193.6	2148.5	2146.5
45°	3584.4	3577.8	3420.0	2934.8	2382.6	2229.2	2241.7	2332.4	2477.3	2487.3	2550.9
47.5°	4055.0	4052.0	3961.2	3508.7	2868.2	2549.4	2553.5	2649.7	2904.3	3030.1	3131.8
50°	4484.0	4498.5	4426.8	4129.6	3529.7	3051.1	3041.6	3105.7	3514.7	3720.7	3847.0
52.5°	5080.3	5100.9	4899.9	4709.0	4223.9	3673.6	3666.1	3733.2	4248.4	4402.8	4425.3
55°	5607.1	5572.0	5413.1	5358.0	5070.3	4442.4	4440.4	4499.5	4958.1	5023.7	5065.3
57.5°	5839.6	5826.1	5902.8	6029.1	5956.9	5351.0	5346.5	5301.4	5593.0	5600.1	5727.9
60°	5986.5	6003.0	6238.0	6627.5	6807.4	6328.8	6299.7	6024.6	6199.5	6183.9	6320.7
62.5°	5876.2	5908.8	6331.8	6980.8	7443.9	7182.3	7141.2	6687.1	6717.7	6664.0	6791.3
65°	5290.8	5341.5	6034.6	6914.1	7759.6	7849.3	7807.7	7272.0	7129.1	7040.9	6970.3
67.5°	4296.0	4326.1	5049.8	6334.3	7617.3	8247.2	8238.7	7784.7	7439.9	6977.3	6429.0
69°	3550.3	3579.8	4276.5	5723.8	7304.0	8332.4	8349.0	7949.0	7380.7	6590.4	5696.3
70°	3007.0	3038.6	3687.6	5200.6	6940.7	8292.8	8322.4	7933.5	7211.3	6142.3	5053.3
72.5°	1577.2	1604.2	2270.3	3582.9	5658.2	7614.8	7704.5	7262.9	6112.8	4460.9	2988.0
75°	495.7	511.2	886.6	1872.9	3874.0	5920.8	5941.4	5697.3	4340.6	2453.7	1244.4
77.5°	188.9	184.4	295.2	690.1	1958.6	3728.2	3854.0	3560.3	2277.8	867.5	287.2
80°	101.7	102.2	153.4	285.7	838.0	1916.0	2022.2	1725.5	809.4	270.6	66.2
82.5°	44.1	46.1	86.2	151.4	384.9	706.6	759.8	632.5	309.2	181.9	24.6
85°	9.5	10.5	41.6	82.2	156.9	198.5	208.0	205.0	197.0	141.3	9.5
87.5°	0.0	0.0	18.5	29.6	39.6	45.1	39.6	51.6	108.8	95.2	5.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0	1071.0
2.5°	1072.0	1063.0	1047.4	1030.4	1018.4	1005.8	995.8	991.3	986.3	982.8	987.3
5°	1070.0	1052.5	1022.4	993.3	972.3	955.2	941.2	935.7	930.2	926.2	925.7
7.5°	1087.5	1063.0	1016.9	974.3	941.7	918.6	899.6	891.6	885.1	882.1	879.6
10°	1121.1	1089.5	1027.9	972.3	930.2	891.1	850.0	818.4	797.9	788.3	784.8
12.5°	1164.7	1125.1	1048.9	982.8	921.6	846.5	759.3	684.1	635.5	619.4	609.9
15°	1215.8	1166.7	1076.5	996.3	890.6	753.3	605.4	507.2	462.1	453.1	443.0
17.5°	1265.0	1210.8	1109.6	998.8	822.4	601.9	443.5	376.9	359.3	365.4	366.9
20°	1308.1	1254.4	1142.2	976.8	698.6	451.6	343.3	326.8	333.3	344.8	346.8
22.5°	1351.7	1296.5	1172.2	918.6	540.3	342.8	309.2	313.2	319.7	331.3	333.3
25°	1404.8	1347.6	1200.3	811.9	405.4	291.7	293.7	299.7	306.2	316.7	317.7
27.5°	1465.9	1412.3	1218.8	673.1	300.7	268.1	274.6	283.7	290.2	300.2	302.2
30°	1547.1	1497.5	1224.9	529.2	252.1	247.1	250.1	261.1	270.6	279.7	281.2
32.5°	1623.3	1581.7	1204.8	399.4	233.5	227.5	227.5	234.0	245.1	253.6	255.6
35°	1693.4	1666.4	1140.7	292.2	219.5	209.5	204.5	204.5	211.5	218.5	220.5
37.5°	1786.2	1785.2	1036.9	233.0	206.0	194.5	183.9	175.9	173.4	174.9	175.9
40°	1945.0	1946.5	901.6	209.0	194.5	178.9	162.9	148.3	134.8	130.3	129.8
42.5°	2193.1	2170.6	759.8	197.5	184.4	162.9	138.8	119.3	98.2	91.7	91.2
45°	2587.0	2453.2	609.4	186.9	173.9	144.8	114.8	88.2	71.2	66.2	66.2
47.5°	3160.9	2824.6	472.1	175.4	159.9	124.3	86.7	63.6	52.1	49.6	50.1
50°	3754.3	3188.4	361.8	160.9	142.8	102.7	64.1	46.1	39.6	39.6	40.1
52.5°	4280.5	3455.1	282.2	145.3	121.8	80.7	48.6	36.1	33.1	32.6	33.1
55°	4773.1	3627.0	216.0	127.3	96.7	60.1	37.1	29.6	27.6	26.6	26.1
57.5°	5248.2	3712.2	161.9	102.7	70.2	43.6	29.6	25.1	23.1	21.6	21.0
60°	5564.5	3643.0	111.3	75.7	48.6	31.6	24.6	21.6	19.0	17.5	17.0
62.5°	5742.9	3454.1	71.7	54.6	34.6	23.6	19.5	18.0	14.5	13.0	13.0
65°	5670.7	3142.3	50.1	39.1	25.1	17.5	14.5	14.5	10.5	8.5	8.0
67.5°	5025.2	2654.7	38.1	29.1	18.0	13.0	11.0	12.5	6.5	4.0	4.0
69°	4323.6	2200.1	32.6	24.1	15.0	10.5	9.5	11.5	4.5	3.0	2.5
70°	3757.8	1897.9	29.6	21.0	12.5	9.0	8.5	11.0	4.5	2.5	2.0
72.5°	2248.2	1058.5	22.6	15.0	8.0	7.0	7.0	12.5	4.5	2.5	2.0
75°	908.6	372.9	16.5	10.5	6.0	6.0	8.5	16.0	4.0	2.0	1.5
77.5°	206.0	81.7	9.5	6.5	4.0	6.0	10.0	12.5	2.5	1.0	0.0
80°	50.1	20.0	6.0	4.0	2.5	4.5	7.5	7.0	0.5	0.0	0.0
82.5°	16.5	7.0	2.5	2.0	0.5	1.5	3.5	2.0	0.0	0.0	0.0
85°	7.0	4.0	1.0	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0
87.5°	4.5	1.5	0.0	0.0	0.0	0.0	0.0	0.0	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)