

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: P387188

Luminaire Tested: GAW-SA2D-830-U-T4W-HSS

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P387188
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-830-U-T4W-HSS
Description: GALLEON WALL LUMINAIRE
(2) 80 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: 9327 lumens
Efficiency: N/A
Efficacy: 72.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

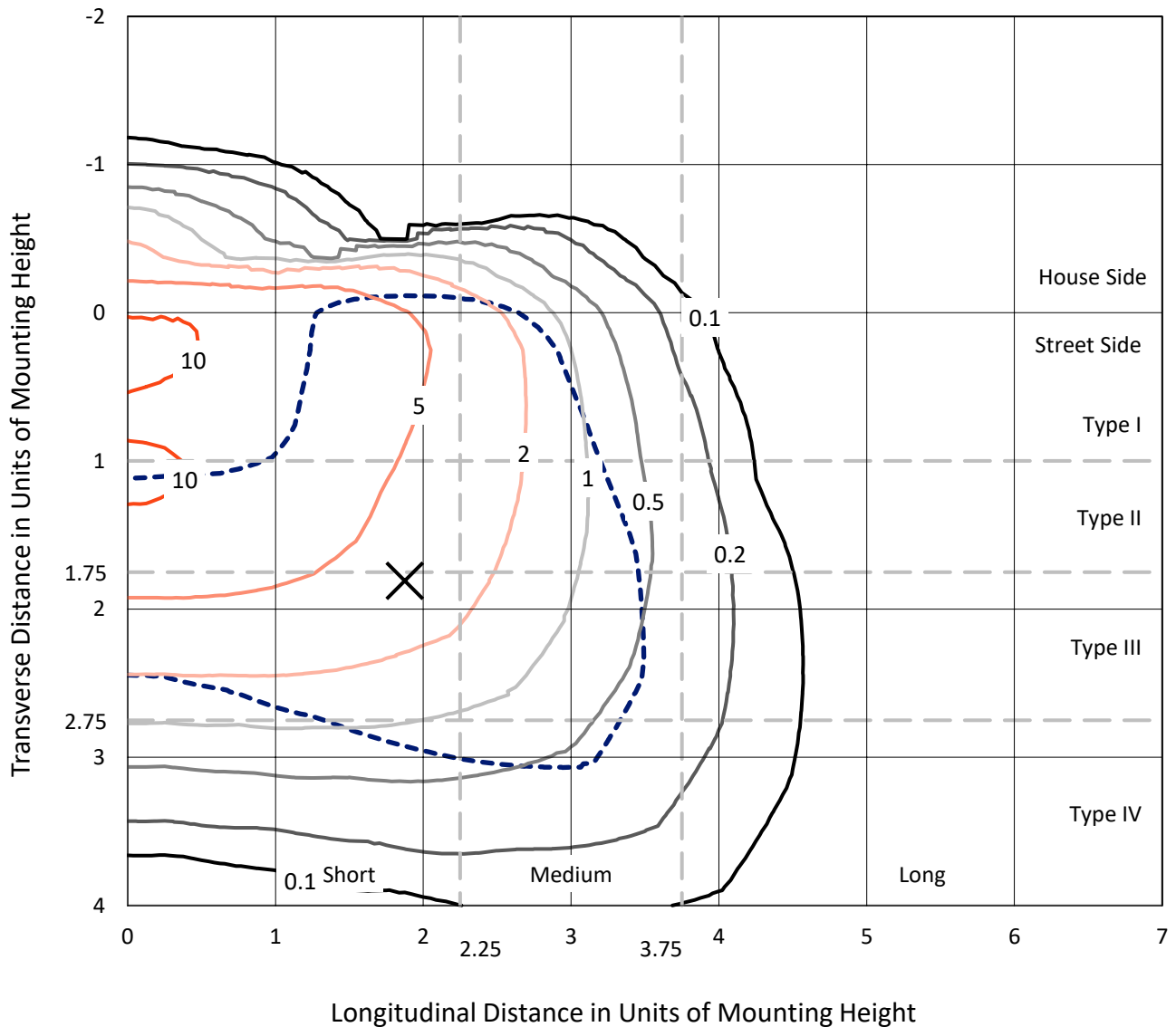
Input Watts (W): 128
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

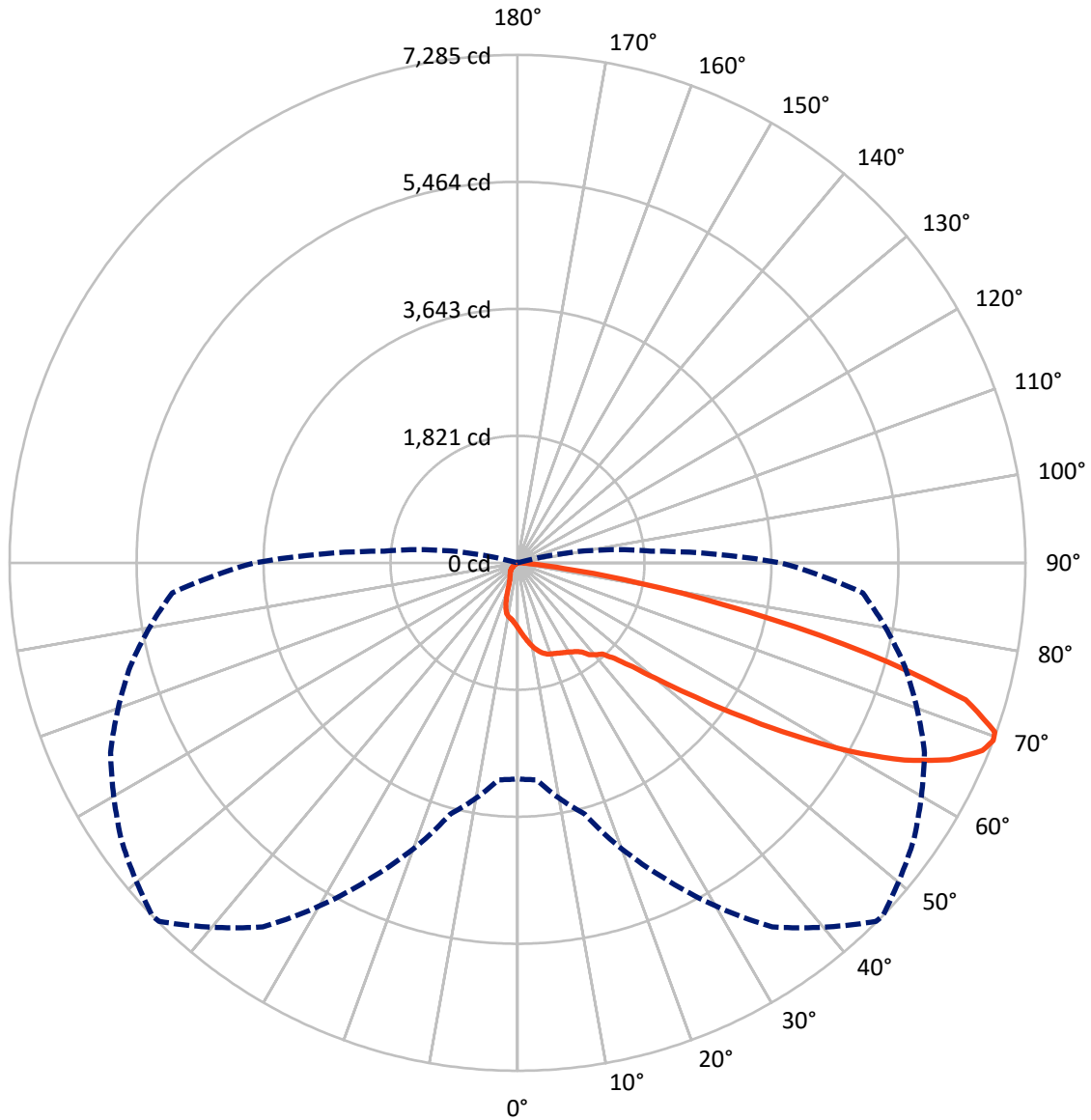
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.6 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	957.2	0.0	957.2
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	8369.8	0.0	8369.8
	% Fixture	89.7	0.0	89.7
Total	Lumens	9327.0	0.0	9327.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	1.0
10°-20°	282.2	3.0
20°-30°	443.8	4.8
30°-40°	636.4	6.8
40°-50°	1100.0	11.8
50°-60°	2173.1	23.3
60°-70°	3037.0	32.6
70°-80°	1467.2	15.7
80°-90°	94.3	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°	9327.0	100.0
0°-180°	9327.0	100.0

Coefficient of Utilization

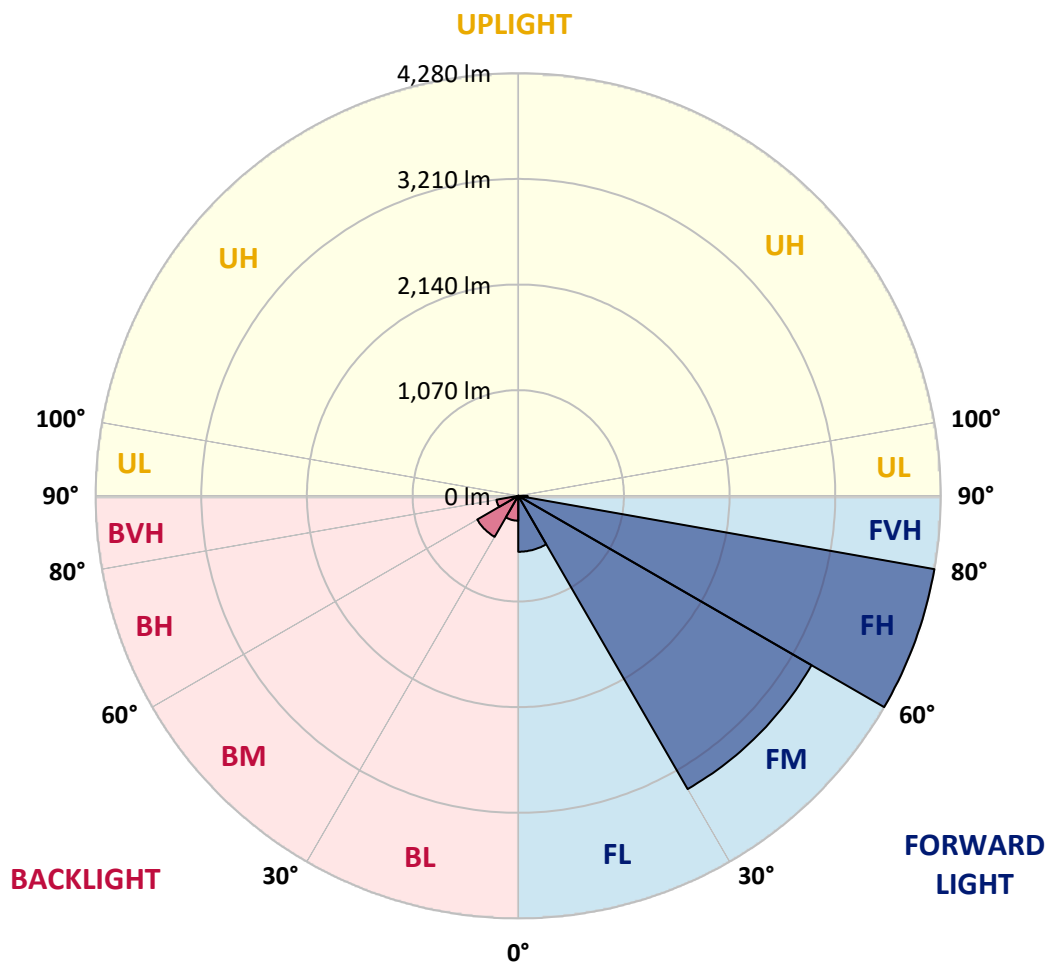


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	566.7	6.1			
FM (30°-60°)	3429.8	36.8			
FH (60°-80°)	4279.8	45.9			G2/5000
FVH (80°-90°)	93.5	1.0			G1/100
BL (0°-30°)	252.3	2.7	B1/500		
BM (30°-60°)	479.7	5.1	B1/1000		
BH (60°-80°)	224.4	2.4	B1/500		G1/500
BVH (80°-90°)	0.8	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°	934.5	934.5	934.5	934.5	934.5	934.5	934.5	934.5	934.5	934.5	934.5
2.5°	1038.2	1036.9	1030.7	1028.1	1013.2	1004.5	1001.0	990.1	974.3	958.6	941.1
5°	1156.2	1155.8	1144.4	1133.5	1105.5	1079.3	1074.5	1049.1	1013.7	980.4	947.2
7.5°	1276.9	1271.3	1259.9	1238.9	1198.2	1156.2	1152.3	1116.5	1066.2	1018.1	970.4
10°	1379.3	1375.8	1360.9	1329.0	1281.3	1233.7	1228.8	1184.7	1127.8	1068.8	1008.0
12.5°	1458.9	1456.2	1436.6	1396.8	1346.0	1296.6	1290.1	1250.7	1189.9	1123.9	1052.2
15°	1507.4	1506.1	1482.0	1439.6	1389.8	1346.9	1341.2	1306.7	1250.3	1181.2	1100.3
17.5°	1518.8	1519.2	1494.3	1451.4	1410.3	1379.7	1375.3	1349.1	1301.9	1233.2	1148.4
20°	1493.4	1498.7	1476.4	1439.2	1413.8	1397.6	1394.1	1378.4	1338.6	1273.9	1186.9
22.5°	1457.6	1460.2	1444.9	1419.9	1409.4	1412.5	1410.8	1402.0	1368.3	1308.9	1224.9
25°	1435.7	1435.7	1426.5	1405.5	1412.5	1431.3	1431.8	1430.0	1403.3	1351.7	1271.3
27.5°	1434.8	1432.2	1421.7	1406.0	1425.2	1454.1	1455.8	1467.6	1451.0	1403.8	1329.0
30°	1469.8	1466.7	1444.4	1423.9	1448.4	1479.4	1483.8	1509.6	1501.3	1460.2	1393.3
32.5°	1551.6	1540.6	1491.2	1457.6	1475.9	1513.1	1518.8	1559.9	1573.0	1529.7	1455.4
35°	1663.5	1629.0	1557.7	1521.4	1523.1	1562.1	1567.3	1627.7	1666.6	1593.6	1503.5
37.5°	1817.9	1800.8	1685.0	1587.9	1595.7	1654.8	1670.1	1735.7	1724.7	1628.5	1558.1
40°	2156.4	2129.7	2006.4	1774.2	1665.3	1730.0	1734.8	1769.8	1770.7	1707.7	1671.8
42.5°	2617.3	2606.4	2476.5	2112.2	1802.2	1780.3	1789.0	1848.1	1914.1	1874.7	1873.0
45°	3127.6	3122.0	2984.2	2560.9	2079.0	1945.2	1956.1	2035.2	2161.6	2170.4	2225.9
47.5°	3538.3	3535.6	3456.5	3061.6	2502.7	2224.6	2228.1	2312.1	2534.2	2644.0	2732.7
50°	3912.6	3925.3	3862.8	3603.4	3080.0	2662.3	2654.0	2710.0	3066.9	3246.6	3356.8
52.5°	4433.0	4450.9	4275.6	4109.0	3685.6	3205.5	3198.9	3257.5	3707.1	3841.8	3861.4
55°	4892.6	4862.0	4723.4	4675.3	4424.3	3876.3	3874.6	3926.2	4326.3	4383.6	4419.9
57.5°	5095.5	5083.7	5150.6	5260.8	5197.9	4669.2	4665.2	4625.9	4880.4	4886.5	4998.0
60°	5223.7	5238.1	5443.2	5783.0	5940.0	5522.3	5497.0	5256.9	5409.5	5396.0	5515.3
62.5°	5127.5	5155.9	5525.0	6091.3	6495.4	6267.1	6231.2	5835.0	5861.7	5814.9	5926.0
65°	4616.7	4660.8	5265.6	6033.1	6770.9	6849.1	6812.8	6345.4	6220.7	6143.8	6082.1
67.5°	3748.6	3774.9	4406.3	5527.2	6646.7	7196.4	7188.9	6792.7	6491.9	6088.2	5609.8
69°	3097.9	3123.7	3731.6	4994.5	6373.3	7270.7	7285.1	6936.2	6440.3	5750.6	4970.5
70°	2623.9	2651.4	3217.7	4538.0	6056.3	7236.2	7262.0	6922.6	6292.4	5359.7	4409.4
72.5°	1376.2	1399.8	1981.0	3126.3	4937.2	6644.5	6722.8	6337.5	5333.9	3892.5	2607.2
75°	432.5	446.1	773.6	1634.2	3380.4	5166.4	5184.3	4971.3	3787.5	2141.1	1085.8
77.5°	164.9	160.9	257.6	602.2	1709.0	3253.1	3362.9	3106.6	1987.6	757.0	250.6
80°	88.8	89.2	133.8	249.3	731.2	1671.8	1764.5	1505.7	706.3	236.1	57.7
82.5°	38.5	40.2	75.2	132.1	335.9	616.6	663.0	551.9	269.8	158.7	21.4
85°	8.3	9.2	36.3	71.7	136.9	173.2	181.5	178.9	171.9	123.3	8.3
87.5°	0.0	0.0	16.2	25.8	34.5	39.4	34.5	45.0	94.9	83.1	4.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	934.5	934.5	934.5	934.5	934.5	934.5	934.5	934.5	934.5	934.5	934.5
2.5°	935.4	927.5	914.0	899.1	888.6	877.7	868.9	865.0	860.6	857.6	861.5
5°	933.7	918.4	892.1	866.7	848.4	833.5	821.3	816.5	811.6	808.1	807.7
7.5°	949.0	927.5	887.3	850.1	821.7	801.6	785.0	778.0	772.3	769.7	767.5
10°	978.3	950.7	896.9	848.4	811.6	777.5	741.7	714.1	696.2	687.9	684.8
12.5°	1016.3	981.8	915.3	857.6	804.2	738.6	662.5	596.9	554.5	540.5	532.2
15°	1060.9	1018.1	939.3	869.4	777.1	657.3	528.3	442.6	403.2	395.3	386.6
17.5°	1103.8	1056.5	968.2	871.6	717.6	525.2	387.0	328.9	313.6	318.8	320.1
20°	1141.4	1094.6	996.6	852.3	609.6	394.0	299.6	285.1	290.8	300.9	302.6
22.5°	1179.4	1131.3	1022.9	801.6	471.4	299.1	269.8	273.3	279.0	289.1	290.8
25°	1225.8	1175.9	1047.4	708.4	353.8	254.5	256.3	261.5	267.2	276.4	277.3
27.5°	1279.1	1232.3	1063.5	587.3	262.4	234.0	239.6	247.5	253.2	261.9	263.7
30°	1350.0	1306.7	1068.8	461.8	220.0	215.6	218.2	227.8	236.1	244.0	245.3
32.5°	1416.4	1380.1	1051.3	348.5	203.8	198.5	198.5	204.2	213.8	221.3	223.0
35°	1477.7	1454.1	995.3	255.0	191.5	182.8	178.4	178.4	184.5	190.7	192.4
37.5°	1558.6	1557.7	904.8	203.3	179.7	169.7	160.5	153.5	151.3	152.6	153.5
40°	1697.2	1698.5	786.7	182.4	169.7	156.1	142.1	129.4	117.6	113.7	113.3
42.5°	1913.7	1894.0	663.0	172.3	160.9	142.1	121.1	104.1	85.7	80.0	79.6
45°	2257.4	2140.6	531.8	163.1	151.7	126.4	100.1	77.0	62.1	57.7	57.7
47.5°	2758.1	2464.7	411.9	153.1	139.5	108.5	75.7	55.5	45.5	43.3	43.7
50°	3275.9	2782.2	315.7	140.4	124.6	89.6	56.0	40.2	34.5	34.5	35.0
52.5°	3735.1	3014.8	246.2	126.8	106.3	70.4	42.4	31.5	28.9	28.4	28.9
55°	4164.9	3164.8	188.5	111.1	84.4	52.5	32.4	25.8	24.1	23.2	22.7
57.5°	4579.5	3239.2	141.3	89.6	61.2	38.0	25.8	21.9	20.1	18.8	18.4
60°	4855.4	3178.8	97.1	66.0	42.4	27.6	21.4	18.8	16.6	15.3	14.9
62.5°	5011.1	3013.9	62.5	47.7	30.2	20.6	17.1	15.7	12.7	11.4	11.4
65°	4948.2	2741.9	43.7	34.1	21.9	15.3	12.7	12.7	9.2	7.4	7.0
67.5°	4384.9	2316.4	33.2	25.4	15.7	11.4	9.6	10.9	5.7	3.5	3.5
69°	3772.7	1919.8	28.4	21.0	13.1	9.2	8.3	10.1	3.9	2.6	2.2
70°	3278.9	1656.1	25.8	18.4	10.9	7.9	7.4	9.6	3.9	2.2	1.7
72.5°	1961.8	923.6	19.7	13.1	7.0	6.1	6.1	10.9	3.9	2.2	1.7
75°	792.8	325.4	14.4	9.2	5.2	5.2	7.4	14.0	3.5	1.7	1.3
77.5°	179.7	71.3	8.3	5.7	3.5	5.2	8.7	10.9	2.2	0.9	0.0
80°	43.7	17.5	5.2	3.5	2.2	3.9	6.6	6.1	0.4	0.0	0.0
82.5°	14.4	6.1	2.2	1.7	0.4	1.3	3.1	1.7	0.0	0.0	0.0
85°	6.1	3.5	0.9	0.4	0.0	0.0	0.4	0.0	0.0	0.0	0.0
87.5°	3.9	1.3	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)