

Scaled data based on original data using
LM-79-2024 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P1208190

Luminaire Tested: UPW-SA1-040-827-U-T2R

Issue Date: 11/4/2025

Test Information

Test Method: LM-79-2024
Report Number: P1208190
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATIONS CENTER
Issue Date: 2/21/2026
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: UPW-SA1-040-827-U-T2R
Description: UNDERPASS WALL MOUNT LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4675 lumens
Efficiency: N/A
Efficacy: 106.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 44
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

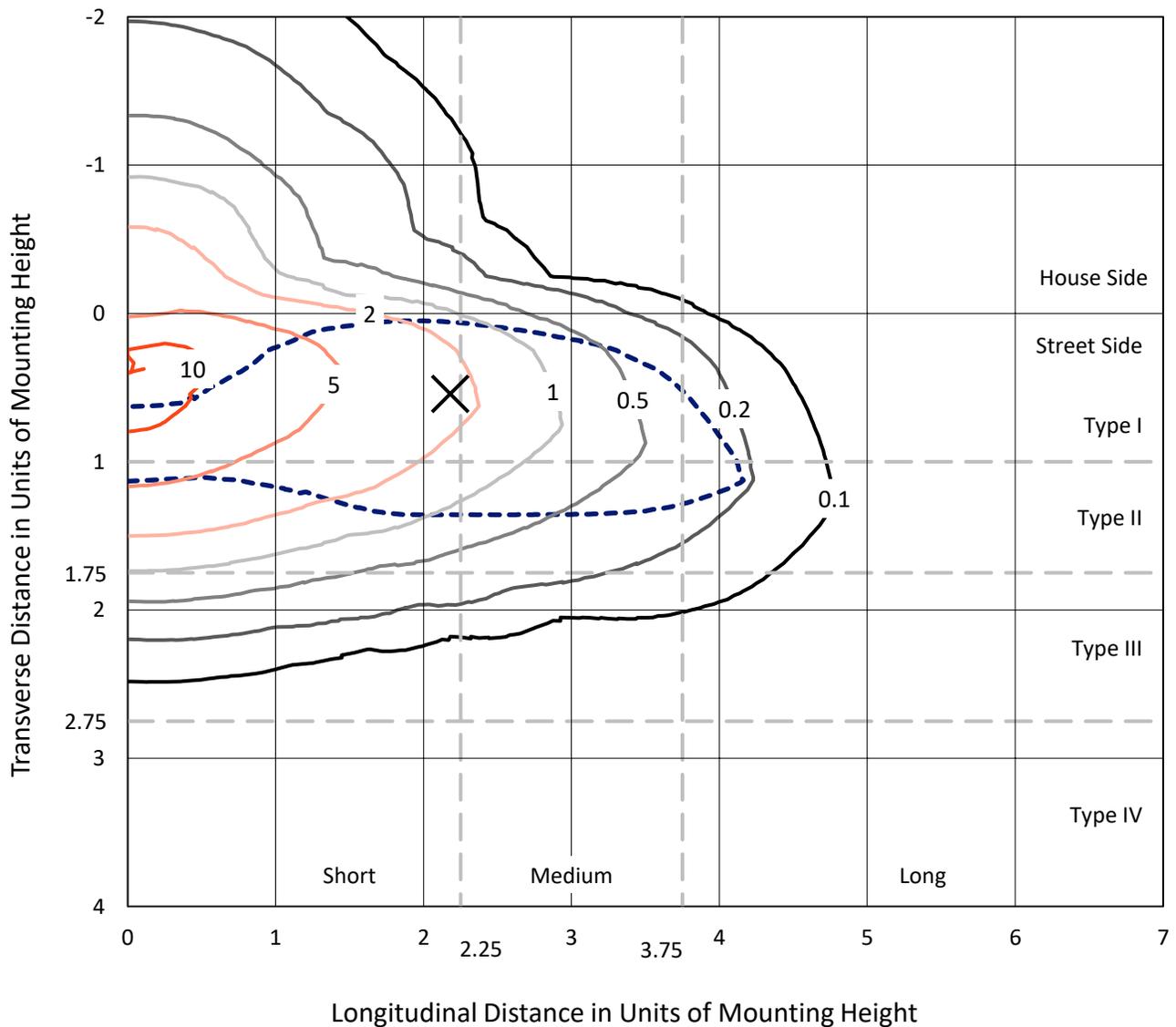


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Iso-Footcandle Lines of Horizontal Illumination

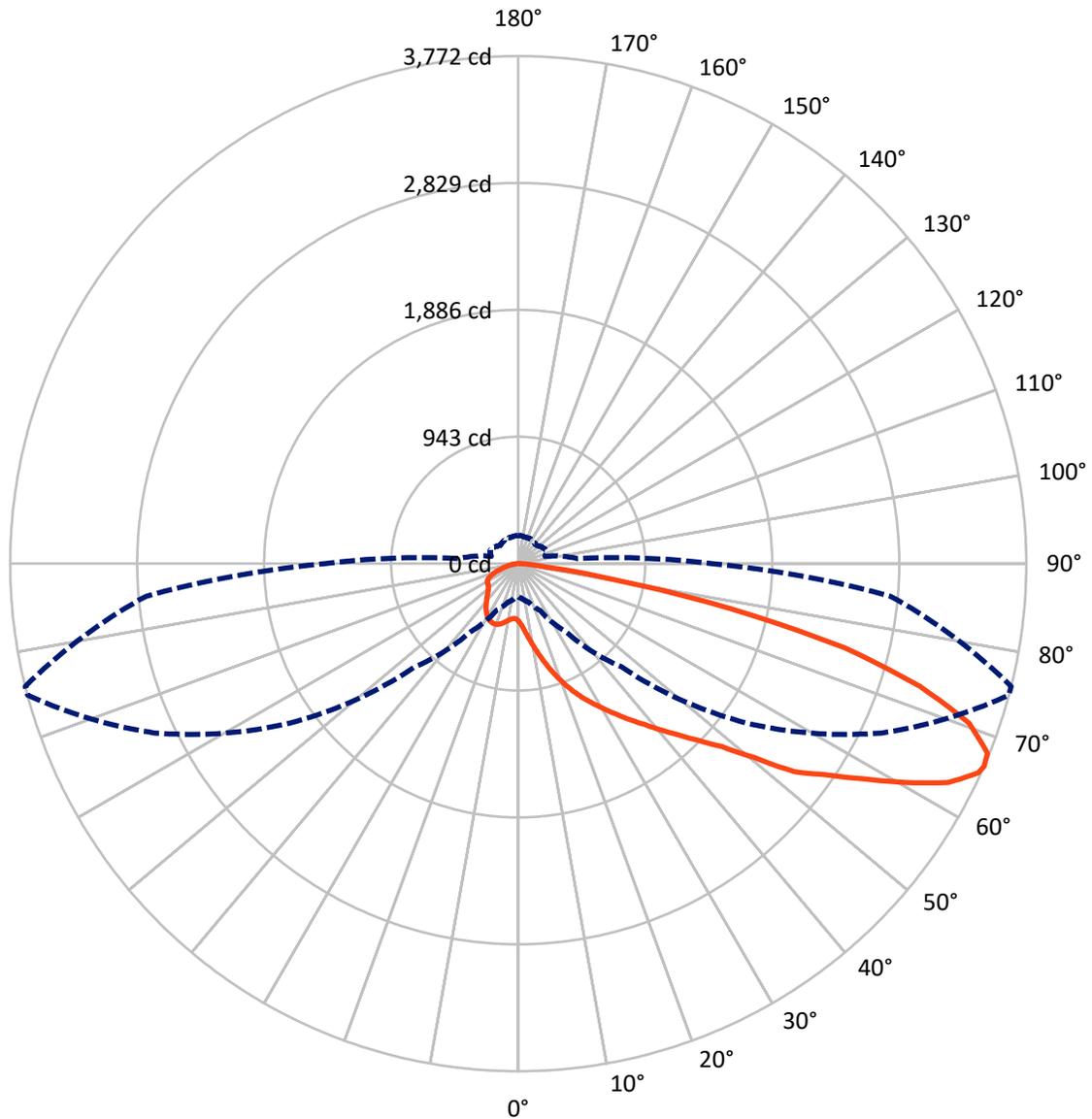
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.3 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	786.6	0.0	786.6
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	3888.4	0.0	3888.4
	% Fixture	83.2	0.0	83.2
Total	Lumens	4675.0	0.0	4675.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.6	1.1
10°-20°	203.9	4.4
20°-30°	396.2	8.5
30°-40°	646.7	13.8
40°-50°	883.5	18.9
50°-60°	1029.1	22.0
60°-70°	922.6	19.7
70°-80°	466.2	10.0
80°-90°	75.3	1.6
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°	4675.0	100.0
0°-180°	4675.0	100.0



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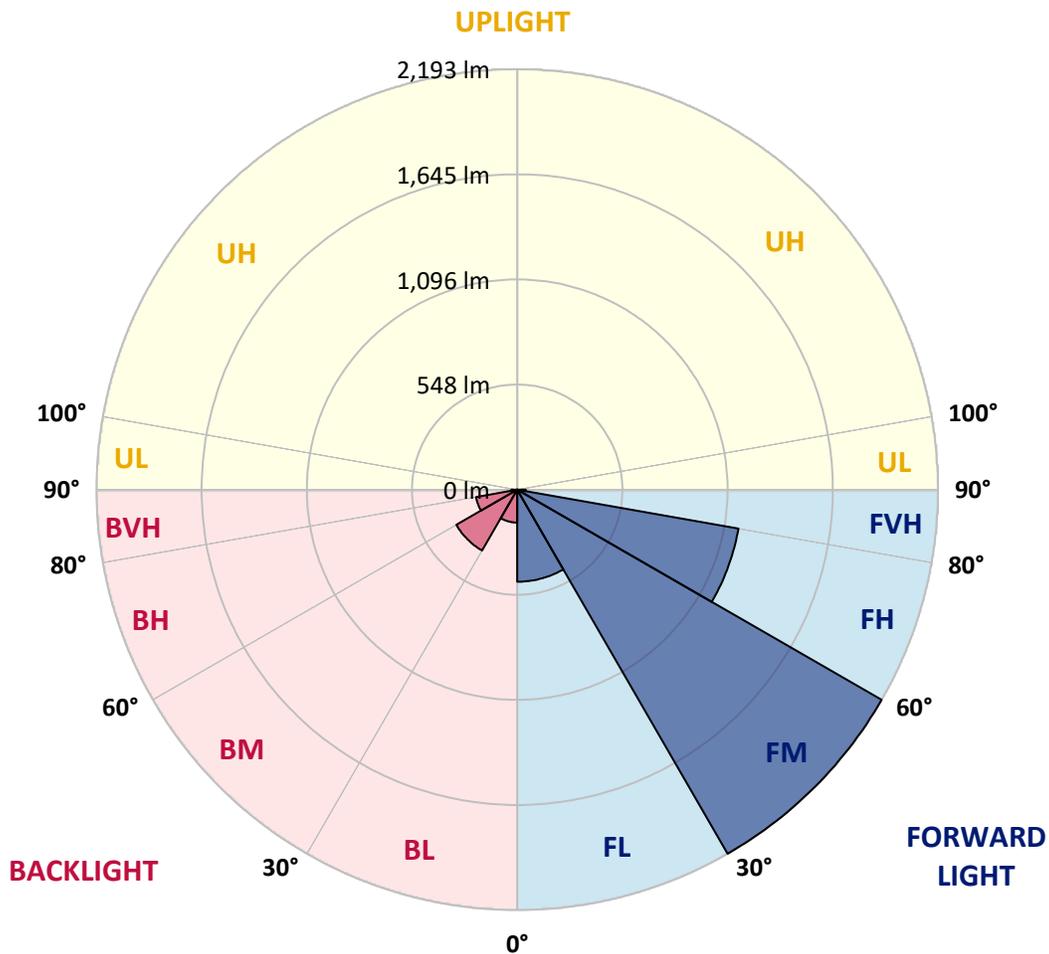
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	480.1	10.3			
FM	(30°-60°)	2192.9	46.9			
FH	(60°-80°)	1170.9	25.0			G1/1800
FVH	(80°-90°)	44.5	1.0			G1/100
BL	(0°-30°)	171.6	3.7	B1/500		
BM	(30°-60°)	366.3	7.8	B1/1000		
BH	(60°-80°)	217.9	4.7	B1/500		G1/500
BVH	(80°-90°)	30.8	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9
2.5°	566.8	558.2	557.4	544.9	542.0	518.0	500.4	482.0	461.1	456.9	440.4
5°	728.0	727.2	716.3	695.8	679.8	638.8	598.3	555.5	508.5	500.9	463.8
7.5°	873.1	871.8	863.4	841.3	818.2	767.8	710.1	644.4	568.2	556.9	495.3
10°	983.2	982.7	979.9	963.7	944.0	895.8	832.0	742.3	637.5	622.1	534.9
12.5°	1068.3	1069.2	1071.1	1065.4	1056.1	1015.0	949.6	846.1	711.5	696.3	578.8
15°	1125.9	1128.8	1138.6	1146.7	1151.6	1126.4	1063.0	952.3	794.3	776.1	627.5
17.5°	1154.9	1158.1	1175.1	1199.5	1222.1	1219.5	1169.2	1053.5	873.9	856.2	679.9
20°	1180.0	1182.4	1201.4	1230.8	1270.6	1288.3	1260.0	1151.0	961.0	940.0	735.5
22.5°	1252.7	1255.7	1261.4	1278.1	1313.3	1345.7	1332.1	1243.2	1040.8	1021.3	788.2
25°	1393.0	1396.7	1384.3	1370.2	1376.8	1399.4	1401.9	1327.3	1121.8	1099.7	844.8
27.5°	1562.0	1567.3	1546.2	1509.8	1478.1	1469.3	1466.3	1396.2	1199.1	1173.5	900.8
30°	1727.6	1736.6	1709.2	1662.0	1603.8	1562.8	1532.5	1463.6	1275.2	1250.8	953.7
32.5°	1889.3	1885.6	1845.8	1799.8	1731.5	1680.3	1607.0	1536.0	1360.9	1332.9	1006.2
35°	2000.1	2001.3	1964.4	1909.8	1844.7	1805.3	1706.6	1614.1	1448.4	1422.5	1065.9
37.5°	2094.4	2088.5	2046.6	1995.6	1939.6	1922.8	1823.3	1700.1	1543.1	1514.9	1129.4
40°	2125.8	2119.0	2091.5	2054.8	2009.9	2008.5	1952.0	1797.6	1650.3	1622.3	1201.0
42.5°	2106.7	2098.0	2086.7	2076.7	2062.9	2069.3	2072.9	1911.8	1768.0	1736.8	1283.8
45°	2036.4	2023.2	2031.2	2052.9	2082.9	2118.8	2182.1	2038.3	1899.9	1873.7	1381.1
47.5°	1928.3	1916.4	1941.2	1987.7	2069.3	2160.1	2285.4	2178.0	2057.4	2031.3	1519.7
50°	1776.3	1779.8	1815.2	1899.8	2023.1	2179.1	2412.7	2362.9	2286.2	2262.0	1708.7
52.5°	1526.8	1527.4	1627.1	1766.0	1941.2	2169.3	2483.4	2599.2	2598.7	2569.4	1888.7
55°	1295.1	1309.2	1388.1	1572.7	1808.5	2129.9	2532.7	2714.1	2803.9	2769.5	2056.4
57.5°	1068.8	1077.0	1151.8	1337.1	1619.2	2025.0	2583.3	2852.0	3040.4	3018.7	2265.0
60°	811.3	824.0	901.3	1072.6	1377.0	1838.8	2588.1	2996.0	3323.1	3301.2	2497.8
62.5°	526.6	548.5	620.9	781.3	1084.0	1571.1	2477.6	3090.1	3591.0	3583.2	2704.4
65°	302.7	319.2	369.5	493.3	747.8	1234.9	2215.0	3053.9	3755.9	3751.5	2781.7
66°	247.3	257.6	296.2	385.5	617.1	1084.5	2062.3	2977.6	3772.2	3772.4	2772.8
67.5°	197.8	202.4	219.7	276.0	455.3	859.6	1789.5	2809.2	3751.9	3757.5	2715.5
70°	163.6	166.0	171.4	185.1	248.5	518.4	1270.2	2371.6	3548.0	3552.3	2491.9
72.5°	146.8	148.2	150.3	152.2	175.4	289.6	775.8	1897.2	3110.7	3116.3	2151.2
75°	133.0	133.8	133.5	133.6	147.1	184.6	400.9	1416.5	2515.3	2504.1	1647.9
77.5°	116.8	117.6	116.0	116.3	130.1	141.9	199.5	991.6	1697.4	1619.0	928.5
80°	98.7	99.4	98.7	99.8	113.3	107.1	116.0	557.9	750.5	709.9	330.1
82.5°	74.6	77.3	79.2	83.6	93.3	76.2	77.6	217.3	228.5	217.6	101.3
85°	32.7	39.8	59.7	64.0	70.2	45.7	50.9	88.6	93.0	90.1	36.8
87.5°	8.6	9.4	29.5	37.1	38.9	20.6	26.5	40.3	42.5	40.3	12.2
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°	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9	426.9
2.5°	431.7	423.9	410.0	397.6	388.2	381.9	375.5	372.3	370.4	368.5	368.8
5°	445.5	429.8	405.8	388.8	379.3	373.3	370.1	368.8	368.1	366.1	366.1
7.5°	466.3	444.1	411.1	393.6	386.1	381.5	379.6	379.0	378.0	375.8	376.1
10°	492.5	461.4	422.0	405.0	398.2	393.1	390.4	389.5	387.7	385.2	385.5
12.5°	523.3	482.8	436.5	418.7	410.4	403.6	399.2	396.5	393.4	390.1	390.3
15°	556.9	506.1	452.0	430.9	419.6	410.1	403.0	398.4	393.6	389.5	389.3
17.5°	591.0	528.7	463.9	437.6	422.3	409.8	400.1	393.0	387.1	382.0	381.5
20°	627.9	549.0	470.6	436.9	417.3	402.3	389.5	380.6	374.1	369.0	368.2
22.5°	665.3	568.0	471.7	430.4	406.0	387.7	374.2	364.4	357.7	352.5	350.6
25°	699.6	582.8	467.1	417.9	390.3	370.6	357.4	347.4	342.0	335.8	333.9
27.5°	730.9	593.1	457.9	401.9	372.7	353.3	340.9	332.3	326.5	321.7	320.1
30°	759.0	598.7	442.8	382.8	354.6	336.9	326.5	320.6	315.5	309.5	308.4
32.5°	785.6	598.7	423.4	362.0	336.6	322.5	316.3	312.7	306.9	301.1	299.5
35°	812.3	595.0	400.6	340.3	320.1	312.2	311.9	307.6	298.9	290.9	288.9
37.5°	840.4	587.5	374.9	320.0	306.6	307.6	310.3	300.8	288.4	277.1	274.1
40°	872.1	577.2	348.2	302.3	295.4	305.5	306.0	290.9	266.8	256.5	253.8
42.5°	909.4	566.9	323.5	286.8	286.5	299.3	297.9	269.7	255.2	250.0	248.5
45°	958.5	561.0	300.0	272.0	279.5	289.3	284.1	257.9	251.9	248.9	247.6
47.5°	1035.7	564.1	278.4	260.3	272.5	279.3	258.4	253.1	248.9	245.2	243.9
50°	1132.6	562.3	260.9	252.2	264.6	268.9	246.8	247.0	244.7	240.6	238.7
52.5°	1205.4	548.7	249.7	247.6	257.6	250.3	239.5	240.9	239.8	233.8	231.7
55°	1275.7	536.9	243.9	245.8	252.5	227.1	230.9	234.4	233.3	227.4	226.5
57.5°	1363.2	534.7	240.4	246.3	248.2	215.5	222.7	227.3	226.5	223.9	223.5
60°	1470.3	535.3	237.3	247.1	243.5	207.0	214.9	220.8	221.2	220.8	220.4
62.5°	1529.2	518.0	229.3	244.9	235.1	199.5	206.8	215.4	215.5	216.5	216.3
65°	1479.2	466.3	214.6	237.1	220.9	193.3	199.8	209.2	206.8	211.1	211.1
66°	1430.6	436.5	207.3	232.0	214.9	190.9	197.6	206.0	203.0	208.9	208.9
67.5°	1331.4	386.1	194.1	221.2	206.3	187.6	195.1	200.8	196.6	205.4	204.7
70°	1150.2	298.7	167.6	196.8	192.2	182.7	191.6	190.3	184.3	197.6	195.1
72.5°	969.7	227.0	134.6	164.7	170.8	176.5	186.6	177.0	169.3	178.7	173.2
75°	752.4	170.6	106.3	128.1	144.3	166.8	180.8	161.6	150.6	149.7	146.6
77.5°	406.8	117.1	84.3	97.8	114.6	154.7	176.8	145.1	128.6	124.7	122.4
80°	161.1	76.2	61.3	74.1	80.1	137.3	167.3	125.9	106.0	102.2	98.6
82.5°	66.5	45.1	39.5	49.7	52.2	117.4	150.1	103.2	81.9	113.3	120.3
85°	28.6	24.8	23.5	25.7	29.5	82.4	119.5	78.7	88.4	78.9	62.7
87.5°	8.6	10.5	10.0	9.8	10.8	19.7	63.6	43.8	64.9	24.6	18.4
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)