

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: P836815

Luminaire Tested: **ARCH3-80-722-U-T3**

Issue Date: 5/16/2024

Test Information

Test Method: LM-79-08
Report Number: P836815
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2310-189-18)
Test Lab: INNOVATION CENTER
Issue Date: 5/16/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH3-80-722-U-T3
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 2200K, 650mA LIGHTSQUARE WITH 40 LEDS AND TYPE III OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11473 lumens
Efficiency: N/A
Efficacy: 140.1 lumens/watt
Luminous Opening: Rectangular (W 0.58' x L: 0.58' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G2

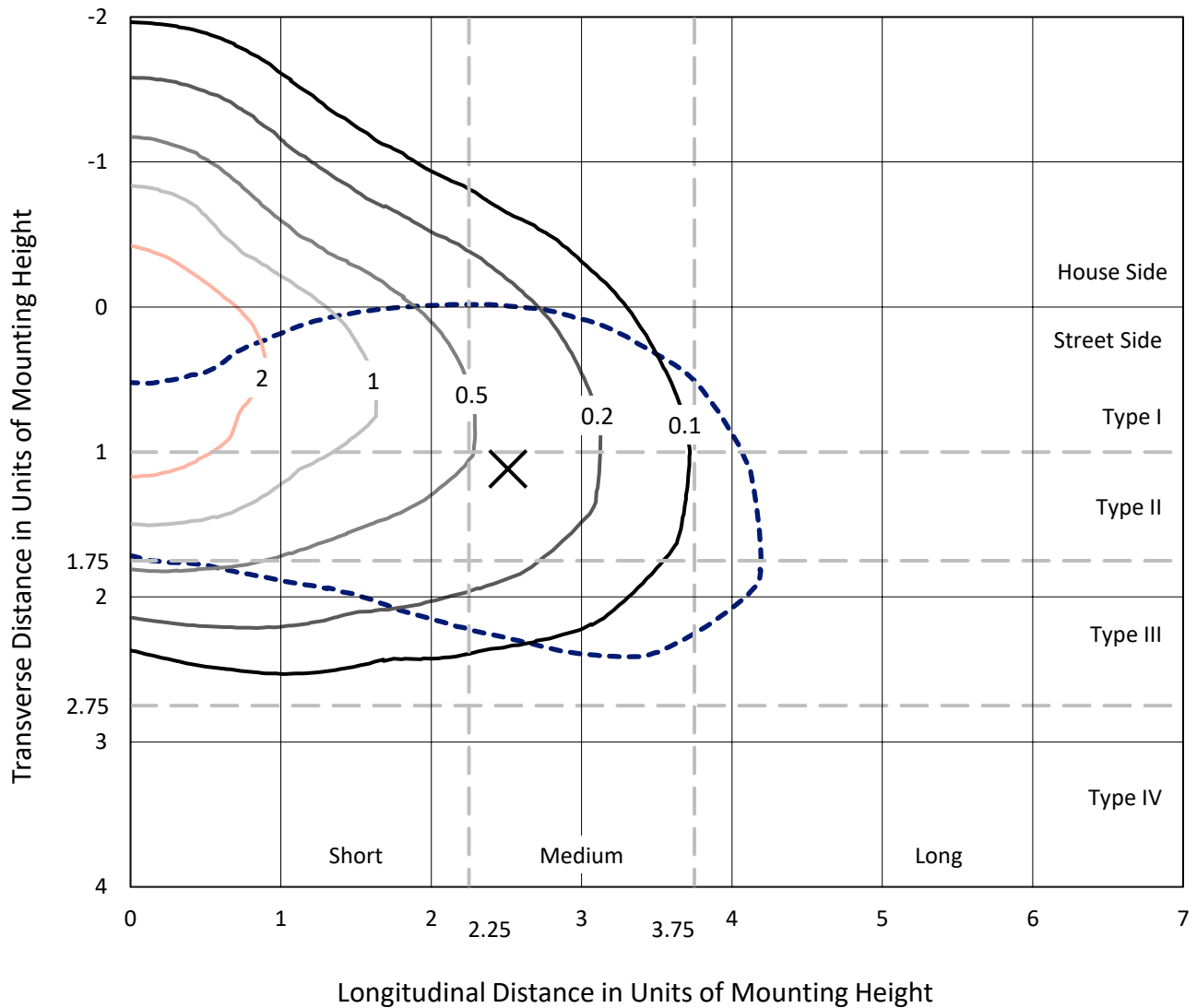
Input Watts (W): 81.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

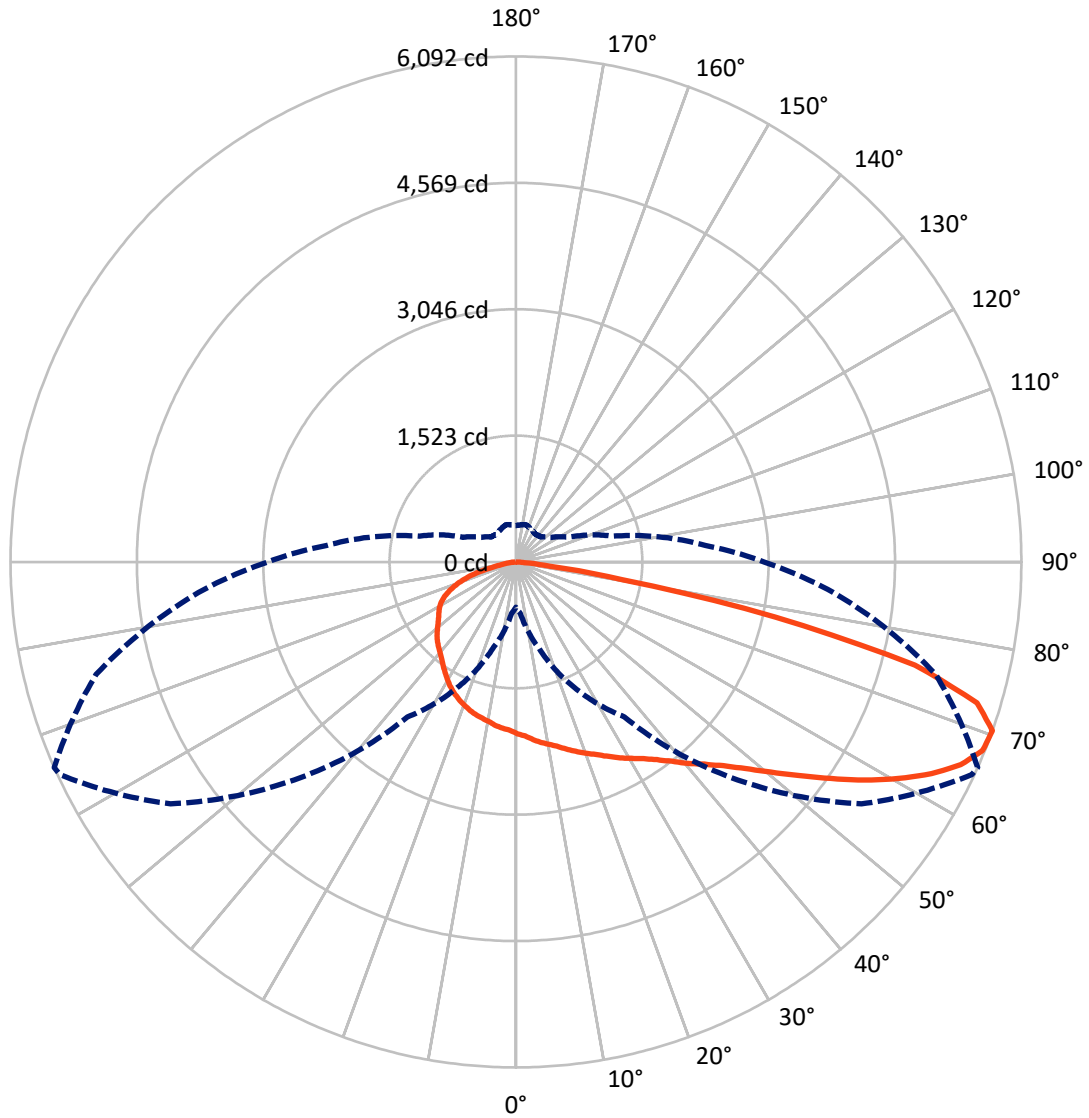
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3040.1	0.0	3040.1
	% Fixture	26.5	0.0	26.5
Street Side	Lumens	8432.9	0.0	8432.9
	% Fixture	73.5	0.0	73.5
Total	Lumens	11473.0	0.0	11473.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.0	1.7
10°-20°	596.8	5.2
20°-30°	1000.5	8.7
30°-40°	1498.0	13.1
40°-50°	2002.9	17.5
50°-60°	2338.4	20.4
60°-70°	2325.2	20.3
70°-80°	1376.5	12.0
80°-90°	135.7	1.2
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°	11473.0	100.0
0°-180°	11473.0	100.0



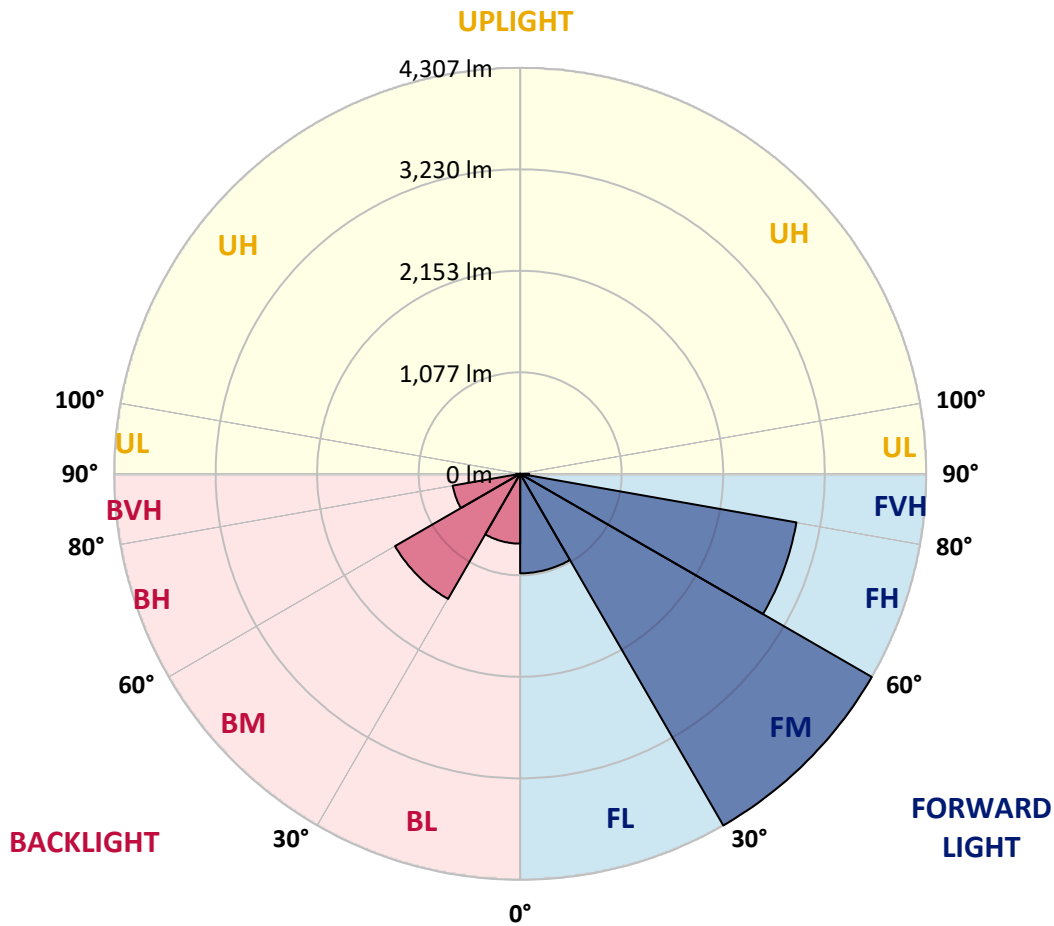
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1055.2	9.2			
FM (30°-60°)	4306.8	37.5			
FH (60°-80°)	2975.5	25.9			G2/5000
FVH (80°-90°)	95.4	0.8			G1/100
BL (0°-30°)	741.0	6.5	B2/1000		
BM (30°-60°)	1532.5	13.4	B2/2500		
BH (60°-80°)	726.2	6.3	B2/1000		G2/1000
BVH (80°-90°)	40.3	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6
2.5°	2146.7	2143.4	2141.7	2134.9	2119.7	2126.4	2111.2	2101.1	2099.4	2075.7	2062.2
5°	2234.7	2233.0	2229.6	2219.5	2195.8	2199.2	2173.8	2155.2	2150.1	2112.9	2084.1
7.5°	2309.1	2305.8	2304.1	2290.5	2265.2	2263.5	2233.0	2205.9	2197.5	2146.7	2102.8
10°	2366.7	2361.6	2365.0	2351.4	2324.4	2319.3	2280.4	2244.9	2236.4	2172.1	2111.2
12.5°	2415.7	2412.3	2417.4	2405.6	2383.6	2378.5	2339.6	2293.9	2283.8	2209.3	2129.8
15°	2469.9	2458.0	2468.2	2463.1	2447.9	2446.2	2410.6	2359.9	2346.4	2256.7	2158.6
17.5°	2498.6	2491.8	2503.7	2505.4	2498.6	2510.5	2476.6	2415.7	2403.9	2300.7	2184.0
20°	2518.9	2508.8	2522.3	2532.4	2537.5	2561.2	2534.1	2474.9	2461.4	2343.0	2207.6
22.5°	2588.3	2566.3	2568.0	2574.7	2578.1	2612.0	2595.0	2537.5	2524.0	2395.4	2236.4
25°	2762.5	2718.5	2689.8	2669.5	2645.8	2674.5	2664.4	2608.6	2596.7	2458.0	2271.9
27.5°	3033.2	2977.4	2919.8	2860.6	2767.6	2755.7	2738.8	2688.1	2674.5	2520.6	2307.5
30°	3341.1	3285.2	3217.6	3122.8	2948.6	2857.2	2818.3	2762.5	2747.3	2576.4	2341.3
32.5°	3647.3	3598.2	3530.5	3415.5	3166.8	2980.7	2897.8	2840.3	2825.1	2637.3	2381.9
35°	3885.8	3855.3	3811.4	3667.6	3383.4	3126.2	3012.9	2943.5	2926.6	2733.8	2456.3
37.5°	4078.6	4056.6	4019.4	3868.9	3540.7	3271.7	3144.8	3065.3	3046.7	2838.6	2535.8
40°	4362.8	4305.3	4274.9	4056.6	3677.7	3403.7	3293.7	3210.8	3190.5	2950.3	2600.1
42.5°	4604.8	4562.5	4525.2	4224.1	3808.0	3517.0	3434.1	3358.0	3330.9	3060.2	2669.5
45°	4645.4	4662.3	4643.7	4307.0	4014.4	3628.7	3576.2	3527.2	3501.8	3209.1	2774.4
47.5°	4647.0	4647.0	4537.1	4354.4	4269.8	3753.8	3728.5	3745.4	3718.3	3398.6	2899.5
50°	4525.2	4547.2	4489.7	4366.2	4337.5	3879.0	3914.5	4005.9	3978.8	3599.9	3034.9
52.5°	4273.2	4345.9	4344.2	4347.6	4239.3	3985.6	4110.8	4318.9	4273.2	3826.6	3178.7
55°	3828.3	3973.8	4104.0	4215.7	4154.8	4049.9	4351.0	4652.1	4604.8	4080.3	3324.1
57.5°	3447.6	3540.7	3703.1	4019.4	4055.0	4105.7	4576.0	5000.6	4958.3	4361.1	3476.4
60°	3012.9	3141.4	3303.8	3753.8	3933.2	4178.4	4823.0	5340.6	5300.0	4645.4	3623.6
62.5°	2344.7	2510.5	2835.3	3346.1	3755.5	4224.1	5017.5	5640.1	5621.4	4914.3	3755.5
65°	1634.2	1781.3	2236.4	2845.4	3473.0	4203.8	5173.2	5907.3	5890.4	5134.2	3848.6
67.5°	954.1	1125.0	1639.2	2290.5	2974.0	4063.4	5223.9	6064.7	6064.7	5267.9	3873.9
70°	544.7	624.2	1081.0	1669.7	2280.4	3676.0	5081.8	6063.0	6091.7	5237.4	3769.1
72.5°	380.6	416.2	727.4	1123.3	1546.2	2974.0	4709.6	5770.3	5809.2	4949.9	3410.4
75°	296.0	321.4	512.6	766.3	974.4	2019.9	3895.9	4865.3	4968.5	4219.0	2757.4
77.5°	225.0	243.6	299.4	478.7	624.2	1160.5	2571.4	3190.5	3197.3	2583.2	1478.5
80°	164.1	182.7	199.6	292.7	331.6	543.0	971.0	1333.0	1295.8	1250.2	800.2
82.5°	98.1	116.7	121.8	159.0	162.4	231.8	340.0	429.7	412.8	549.8	375.6
85°	42.3	59.2	62.6	72.7	69.4	94.7	135.3	113.3	101.5	116.7	81.2
87.5°	10.2	16.9	16.9	18.6	15.2	23.7	25.4	18.6	16.9	20.3	20.3
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°	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6	2070.6
2.5°	2058.8	2053.7	2055.4	2026.6	2018.2	2009.7	2004.6	2001.3	1997.9	2002.9	2008.0
5°	2074.0	2062.2	2048.6	2006.3	1989.4	1970.8	1957.3	1945.4	1940.4	1940.4	1945.4
7.5°	2085.8	2065.5	2036.8	1981.0	1950.5	1925.1	1903.1	1887.9	1879.5	1879.5	1884.5
10°	2087.5	2058.8	2013.1	1945.4	1904.8	1867.6	1842.2	1825.3	1813.5	1813.5	1816.9
12.5°	2097.7	2058.8	1999.6	1918.4	1867.6	1821.9	1791.5	1766.1	1761.0	1761.0	1764.4
15°	2114.6	2067.2	1991.1	1894.7	1833.8	1781.3	1747.5	1720.4	1710.3	1717.1	1718.7
17.5°	2129.8	2072.3	1975.9	1864.2	1791.5	1734.0	1696.8	1673.1	1659.5	1674.8	1674.8
20°	2140.0	2072.3	1953.9	1825.3	1745.8	1681.5	1646.0	1617.2	1607.1	1625.7	1627.4
22.5°	2155.2	2070.6	1930.2	1786.4	1696.8	1629.1	1593.6	1571.6	1566.5	1586.8	1593.6
25°	2172.1	2074.0	1904.8	1742.4	1642.6	1576.6	1549.6	1539.4	1542.8	1568.2	1576.6
27.5°	2190.7	2080.8	1879.5	1693.4	1583.4	1524.2	1509.0	1514.1	1527.6	1559.7	1569.9
30°	2207.6	2082.5	1843.9	1635.9	1515.7	1459.9	1466.7	1488.7	1509.0	1541.1	1553.0
32.5°	2229.6	2084.1	1806.7	1573.3	1443.0	1402.4	1432.9	1468.4	1488.7	1519.1	1532.7
35°	2283.8	2112.9	1778.0	1512.4	1375.3	1353.3	1404.1	1449.8	1461.6	1488.7	1500.5
37.5°	2346.4	2160.3	1762.7	1449.8	1309.4	1304.3	1368.6	1414.2	1417.6	1434.5	1446.4
40°	2385.3	2180.6	1745.8	1397.3	1250.2	1253.5	1319.5	1355.0	1348.3	1360.1	1368.6
42.5°	2424.2	2187.3	1710.3	1353.3	1194.3	1197.7	1248.5	1273.8	1277.2	1302.6	1314.4
45°	2490.2	2205.9	1671.4	1312.7	1143.6	1131.7	1162.2	1196.0	1240.0	1289.1	1302.6
47.5°	2578.1	2244.9	1630.8	1263.7	1094.5	1055.6	1067.4	1126.7	1172.3	1218.0	1226.5
50°	2667.8	2283.8	1593.6	1204.5	1045.5	974.4	979.5	1033.6	1070.8	1106.4	1111.4
52.5°	2755.7	2317.6	1561.4	1148.7	989.6	878.0	898.3	954.1	979.5	996.4	1001.5
55°	2843.7	2346.4	1532.7	1101.3	925.3	801.9	820.5	872.9	898.3	906.7	910.1
57.5°	2935.1	2380.2	1510.7	1060.7	852.6	734.2	746.0	783.2	806.9	817.1	813.7
60°	3011.2	2409.0	1498.8	1018.4	779.9	671.6	668.2	702.0	735.9	746.0	742.6
62.5°	3070.4	2427.6	1480.2	964.3	715.6	609.0	592.1	636.1	671.6	678.4	683.4
65°	3102.5	2429.3	1434.5	894.9	649.6	541.3	529.5	573.5	595.5	602.2	602.2
67.5°	3097.5	2402.2	1344.9	801.9	588.7	480.4	470.3	497.4	529.5	534.6	529.5
70°	2992.6	2290.5	1201.1	703.7	516.0	426.3	407.7	434.8	465.2	446.6	438.1
72.5°	2694.8	2001.3	989.6	595.5	434.8	358.6	350.2	377.2	378.9	382.3	373.9
75°	2126.4	1490.4	741.0	463.5	351.9	301.1	299.4	294.4	301.1	314.7	304.5
77.5°	1116.5	744.3	400.9	284.2	255.4	241.9	230.1	228.4	248.7	257.1	247.0
80°	605.6	417.8	230.1	170.9	155.6	157.3	172.6	169.2	191.2	196.2	187.8
82.5°	263.9	197.9	113.3	103.2	103.2	101.5	106.6	118.4	142.1	142.1	113.3
85°	57.5	49.1	44.0	50.8	57.5	57.5	57.5	57.5	40.6	22.0	15.2
87.5°	18.6	18.6	18.6	20.3	22.0	22.0	18.6	13.5	8.5	1.7	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)