

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: P399121

Luminaire Tested: **ARCH-L-PA3-100-727-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399121
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-100-727-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 440mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14088 lumens
Efficiency: N/A
Efficacy: 138.1 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

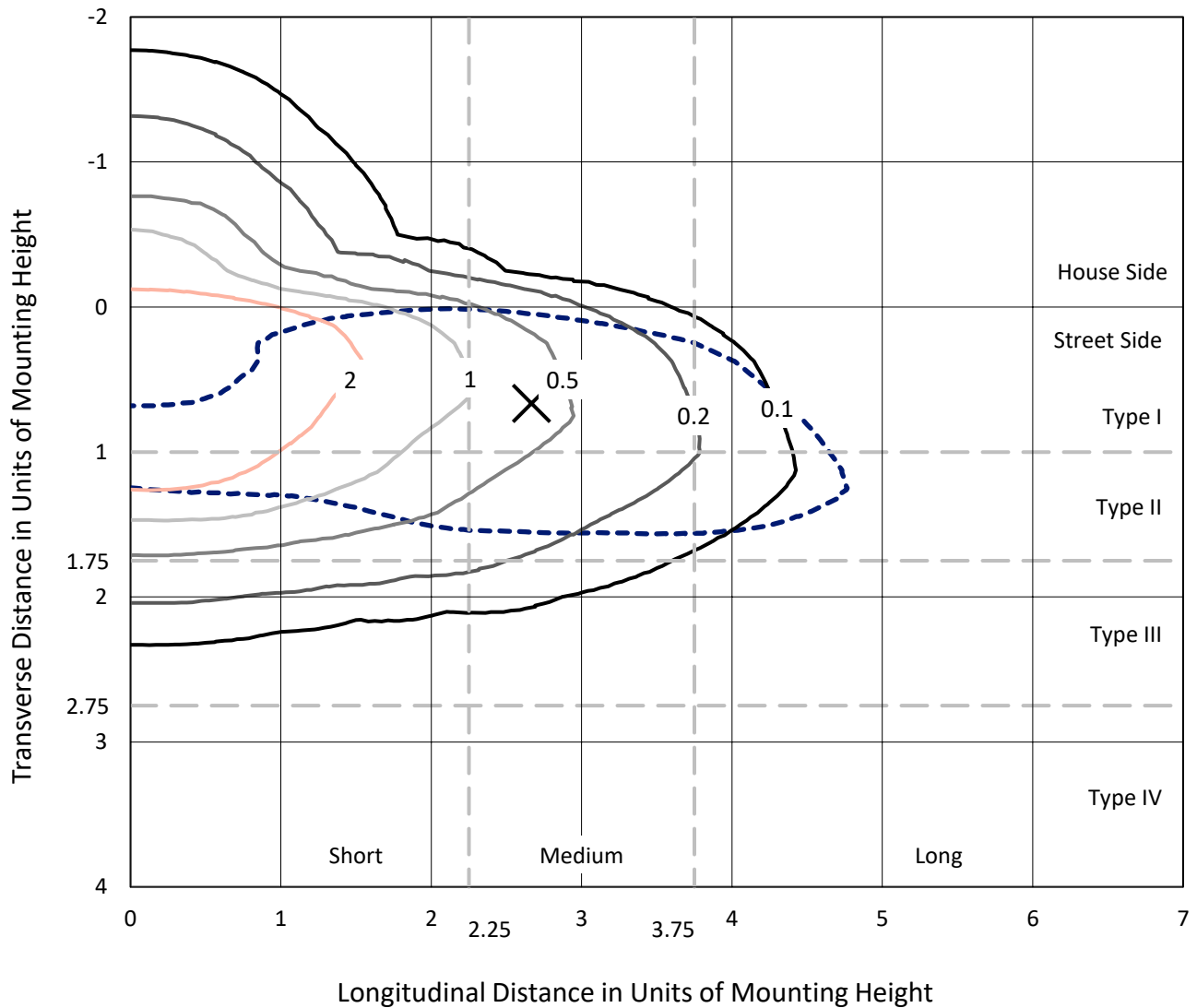
Input Watts (W): 102
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

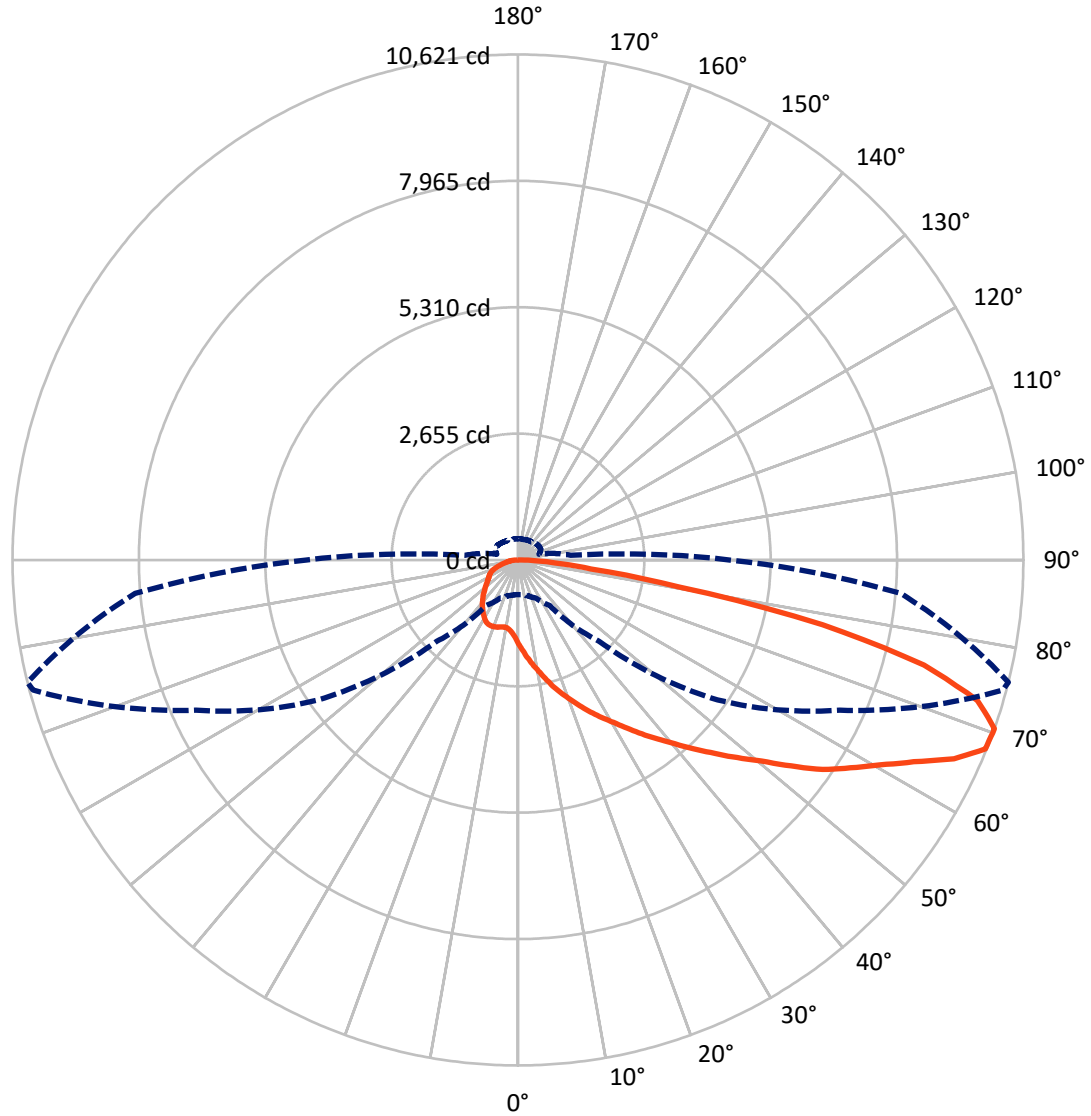
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2300.0	0.0	2300.0
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	11788.0	0.0	11788.0
	% Fixture	83.7	0.0	83.7
Total	Lumens	14088.0	0.0	14088.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	183.1	1.3
10°-20°	622.1	4.4
20°-30°	1113.1	7.9
30°-40°	1800.6	12.8
40°-50°	2604.8	18.5
50°-60°	2981.4	21.2
60°-70°	2742.5	19.5
70°-80°	1696.0	12.0
80°-90°	344.4	2.4
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°	14088.0	100.0
0°-180°	14088.0	100.0

Coefficient of Utilization



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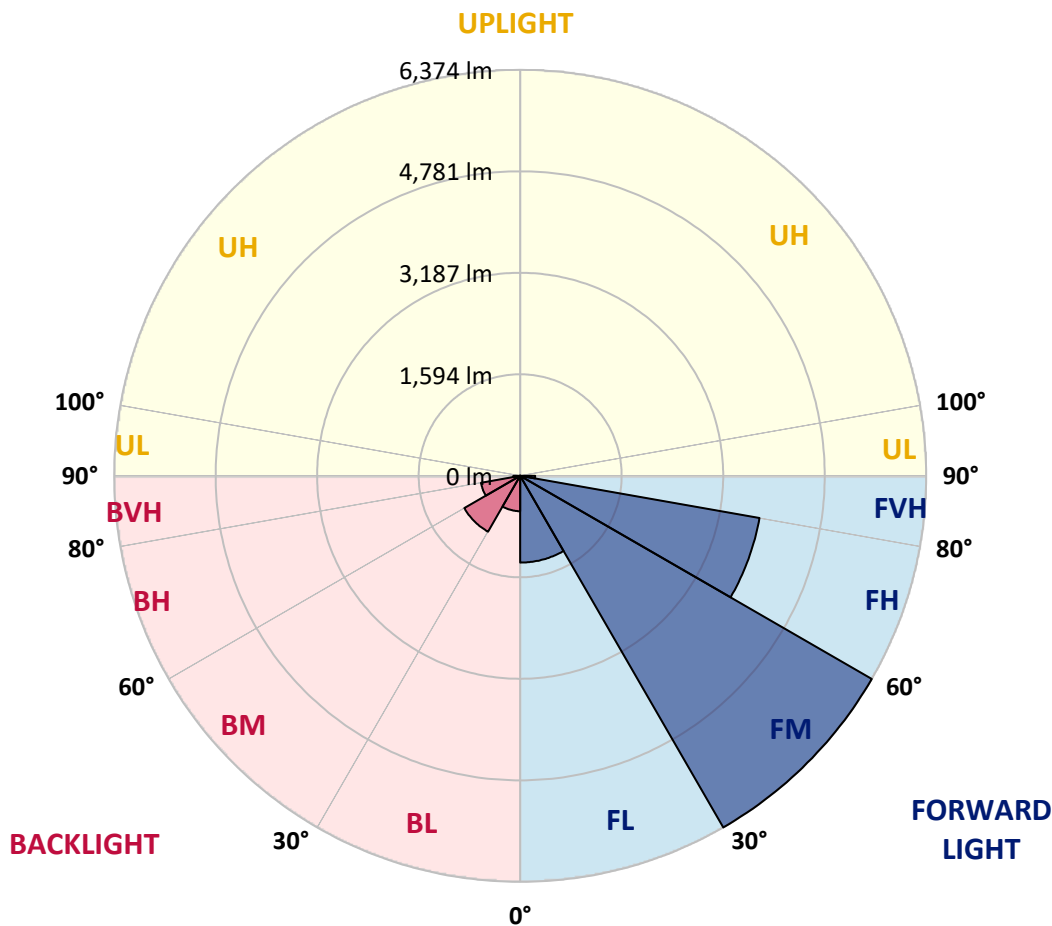
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1362.8	9.7			
FM (30°-60°)	6374.2	45.2			
FH (60°-80°)	3814.7	27.1			G2/5000
FVH (80°-90°)	236.4	1.7			G3/500
BL (0°-30°)	555.5	3.9	B2/1000		
BM (30°-60°)	1012.7	7.2	B2/2500		
BH (60°-80°)	623.8	4.4	B2/1000		G2/1000
BVH (80°-90°)	108.0	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1761.8	1761.8	1761.8	1761.8	1761.8	1761.8	1761.8	1761.8	1761.8	1761.8	1761.8
2.5°	2245.3	2228.6	2226.8	2200.8	2176.7	2111.9	2065.6	1984.1	1902.6	1900.7	1819.2
5°	2595.4	2578.7	2569.5	2538.0	2497.2	2412.0	2328.6	2202.7	2063.7	2054.5	1900.7
7.5°	2832.5	2817.7	2799.2	2786.2	2747.3	2671.4	2569.5	2419.4	2228.6	2210.1	1995.2
10°	2991.9	2982.6	2978.9	2969.6	2945.5	2884.4	2786.2	2626.9	2393.5	2373.1	2095.2
12.5°	3060.4	3056.7	3073.4	3099.3	3108.6	3084.5	2990.0	2839.9	2575.0	2552.8	2215.6
15°	2980.7	2984.4	3027.0	3116.0	3210.5	3262.3	3206.7	3060.4	2780.7	2749.2	2356.4
17.5°	2943.7	2949.2	2978.9	3064.1	3197.5	3358.7	3384.6	3269.7	2978.9	2934.4	2504.6
20°	3008.5	3015.9	3038.2	3104.9	3197.5	3369.8	3505.0	3469.8	3173.4	3127.1	2647.3
22.5°	3173.4	3182.7	3180.8	3223.4	3286.4	3405.0	3571.7	3658.8	3377.2	3325.3	2795.5
25°	3525.4	3518.0	3455.0	3434.6	3451.3	3527.2	3660.6	3840.3	3590.2	3538.3	2951.1
27.5°	4003.3	3994.1	3879.2	3775.5	3682.8	3716.2	3786.6	3986.7	3807.0	3747.7	3099.3
30°	4514.6	4503.5	4370.1	4201.6	3995.9	3947.8	3938.5	4114.5	4025.6	3962.6	3256.8
32.5°	5013.0	5003.7	4861.1	4664.7	4381.3	4236.8	4147.8	4257.1	4273.8	4212.7	3429.0
35°	5466.8	5466.8	5344.6	5111.2	4790.7	4572.1	4425.7	4433.1	4559.1	4488.7	3625.4
37.5°	5870.7	5868.8	5735.5	5505.7	5198.2	4948.1	4766.6	4646.2	4831.4	4770.3	3831.1
40°	6191.2	6178.2	6080.0	5880.0	5570.6	5322.3	5138.9	4896.3	5135.2	5079.7	4049.7
42.5°	6424.6	6417.2	6350.5	6176.4	5881.8	5648.4	5522.4	5211.2	5479.8	5424.2	4305.3
45°	6515.4	6530.2	6530.2	6365.3	6131.9	5918.9	5863.3	5557.6	5852.2	5796.6	4579.5
47.5°	6369.0	6407.9	6487.6	6498.7	6293.1	6148.6	6167.1	5905.9	6235.6	6206.0	4879.6
50°	5911.5	5983.7	6157.8	6472.8	6357.9	6324.6	6426.5	6261.6	6646.9	6637.6	5244.5
52.5°	4731.4	4907.4	5450.2	6015.2	6313.5	6406.1	6684.0	6661.7	7176.7	7191.6	5720.6
55°	3629.1	3695.8	4323.8	5285.3	6041.1	6380.1	6856.2	7052.6	7751.0	7769.5	6157.8
57.5°	2934.4	2978.9	3321.6	4323.8	5420.5	6239.4	6991.5	7280.5	8191.9	8240.1	6546.9
60°	2324.9	2389.8	2619.5	3308.6	4551.7	5900.3	7086.0	7534.3	8666.2	8738.4	7011.9
62.5°	1728.4	1759.9	1976.7	2450.9	3603.2	5290.9	7035.9	7810.3	9247.9	9334.9	7571.3
65°	1230.1	1257.9	1411.6	1743.2	2664.0	4466.5	6745.1	8015.9	9977.8	10066.7	8134.5
67.5°	920.7	931.8	1018.9	1219.0	1795.1	3469.8	6156.0	7980.7	10511.3	10591.0	8360.5
70°	728.0	731.8	774.4	881.8	1167.1	2415.7	5124.1	7463.9	10550.2	10620.6	8075.2
72.5°	603.9	602.1	626.2	678.0	813.3	1528.3	3795.9	6504.3	10050.0	10098.2	7278.6
75°	498.3	502.0	518.7	548.4	620.6	1007.8	2460.2	5189.0	8866.3	8814.4	6107.8
77.5°	418.7	416.8	424.2	450.2	502.0	724.3	1441.3	3749.5	6571.0	6545.0	4008.9
80°	337.2	340.9	352.0	374.2	422.4	552.1	852.2	2339.8	3525.4	3430.9	1915.5
82.5°	226.0	261.2	283.4	309.4	365.0	407.6	540.9	1189.3	1576.5	1552.4	868.8
85°	107.4	142.6	211.2	240.8	296.4	255.7	366.8	566.9	789.2	779.9	313.1
87.5°	22.2	22.2	113.0	135.2	183.4	109.3	203.8	246.4	381.6	357.5	127.8
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°	1761.8	1761.8	1761.8	1761.8	1761.8	1761.8	1761.8	1761.8	1761.8	1761.8	1761.8
2.5°	1771.0	1721.0	1621.0	1541.3	1459.8	1413.5	1356.1	1328.3	1322.7	1307.9	1319.0
5°	1802.5	1704.3	1515.4	1391.3	1307.9	1267.1	1246.8	1239.3	1237.5	1233.8	1233.8
7.5°	1845.1	1695.1	1448.7	1322.7	1269.0	1256.0	1261.6	1272.7	1274.5	1278.3	1276.4
10°	1897.0	1696.9	1411.6	1306.0	1280.1	1282.0	1300.5	1315.3	1322.7	1328.3	1326.4
12.5°	1969.2	1719.2	1406.1	1317.2	1306.0	1313.5	1332.0	1346.8	1354.2	1356.1	1356.1
15°	2063.7	1765.5	1419.0	1341.2	1332.0	1337.5	1348.6	1354.2	1356.1	1354.2	1354.2
17.5°	2167.5	1821.0	1437.6	1356.1	1341.2	1335.7	1332.0	1326.4	1315.3	1307.9	1307.9
20°	2267.5	1871.1	1446.8	1354.2	1328.3	1306.0	1283.8	1256.0	1237.5	1222.7	1222.7
22.5°	2367.5	1917.4	1446.8	1333.8	1293.1	1250.5	1204.2	1159.7	1131.9	1113.4	1113.4
25°	2473.1	1961.8	1435.7	1298.6	1237.5	1176.4	1113.4	1057.8	1030.0	1011.5	1007.8
27.5°	2562.1	1987.8	1406.1	1248.6	1169.0	1091.1	1018.9	961.5	941.1	924.4	924.4
30°	2656.5	2004.4	1350.5	1183.8	1091.1	1002.2	928.1	881.8	859.6	835.5	833.6
32.5°	2762.1	2015.6	1287.5	1115.2	1011.5	917.0	854.0	817.0	768.8	742.9	739.2
35°	2884.4	2030.4	1220.8	1037.4	931.8	846.6	809.6	748.4	702.1	679.9	678.0
37.5°	3014.1	2041.5	1148.6	968.9	859.6	800.3	763.2	691.0	650.2	616.9	613.2
40°	3151.2	2041.5	1074.5	902.2	802.1	779.9	709.5	644.7	576.1	559.5	555.8
42.5°	3303.1	2037.8	1000.4	837.3	748.4	733.6	678.0	609.5	574.3	559.5	555.8
45°	3464.2	2024.8	930.0	763.2	692.8	663.2	620.6	602.1	587.3	587.3	587.3
47.5°	3647.6	2013.7	850.3	696.6	652.1	618.7	587.3	576.1	574.3	579.8	585.4
50°	3882.9	2010.0	783.6	648.4	620.6	581.7	578.0	568.7	570.6	570.6	570.6
52.5°	4168.2	1976.7	720.6	613.2	589.1	542.8	553.9	563.2	566.9	565.0	563.2
55°	4377.5	1917.4	666.9	589.1	566.9	528.0	542.8	557.6	561.3	555.8	555.8
57.5°	4566.5	1834.0	624.3	570.6	552.1	518.7	535.4	550.2	546.5	544.6	542.8
60°	4783.3	1754.4	591.0	561.3	537.2	515.0	529.8	539.1	533.5	529.8	528.0
62.5°	5018.5	1676.5	566.9	561.3	526.1	513.2	524.3	528.0	516.9	513.2	513.2
65°	5127.8	1554.3	540.9	561.3	520.6	509.4	513.2	509.4	498.3	498.3	496.5
67.5°	4948.1	1352.4	507.6	553.9	528.0	503.9	496.5	490.9	478.0	478.0	474.3
70°	4451.7	1111.5	459.4	529.8	529.8	502.0	474.3	461.3	446.5	452.0	444.6
72.5°	3803.3	881.8	400.1	489.1	518.7	500.2	450.2	429.8	416.8	422.4	411.3
75°	3080.8	683.6	329.8	424.2	490.9	490.9	426.1	398.3	383.5	383.5	370.5
77.5°	1963.7	505.7	268.6	352.0	440.9	478.0	405.7	363.1	340.9	335.3	326.0
80°	972.6	355.7	220.5	279.7	376.1	448.3	390.9	322.3	290.8	279.7	263.1
82.5°	516.9	246.4	176.0	218.6	300.1	403.9	372.4	277.9	239.0	222.3	203.8
85°	231.6	151.9	140.8	166.7	227.9	331.6	335.3	227.9	183.4	218.6	161.2
87.5°	85.2	68.5	68.5	85.2	131.5	138.9	237.1	146.4	116.7	79.7	63.0
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)