

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: P399706

Luminaire Tested: **ARCH-L-PA3-180-730-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399706
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-PA3-180-730-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 3000K, 775mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 24525 lumens
Efficiency: N/A
Efficacy: 135.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G3

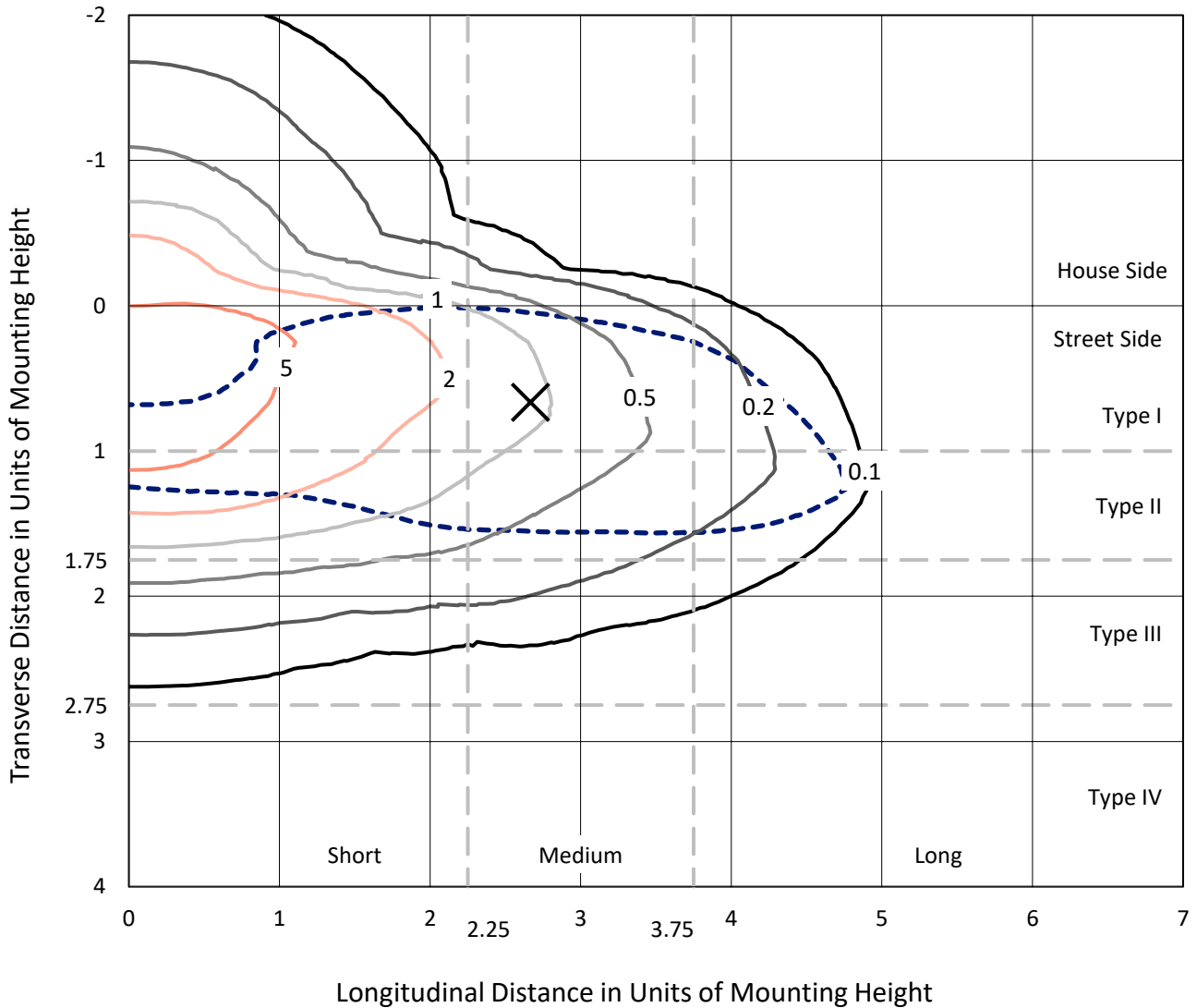
Input Watts (W): 181
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

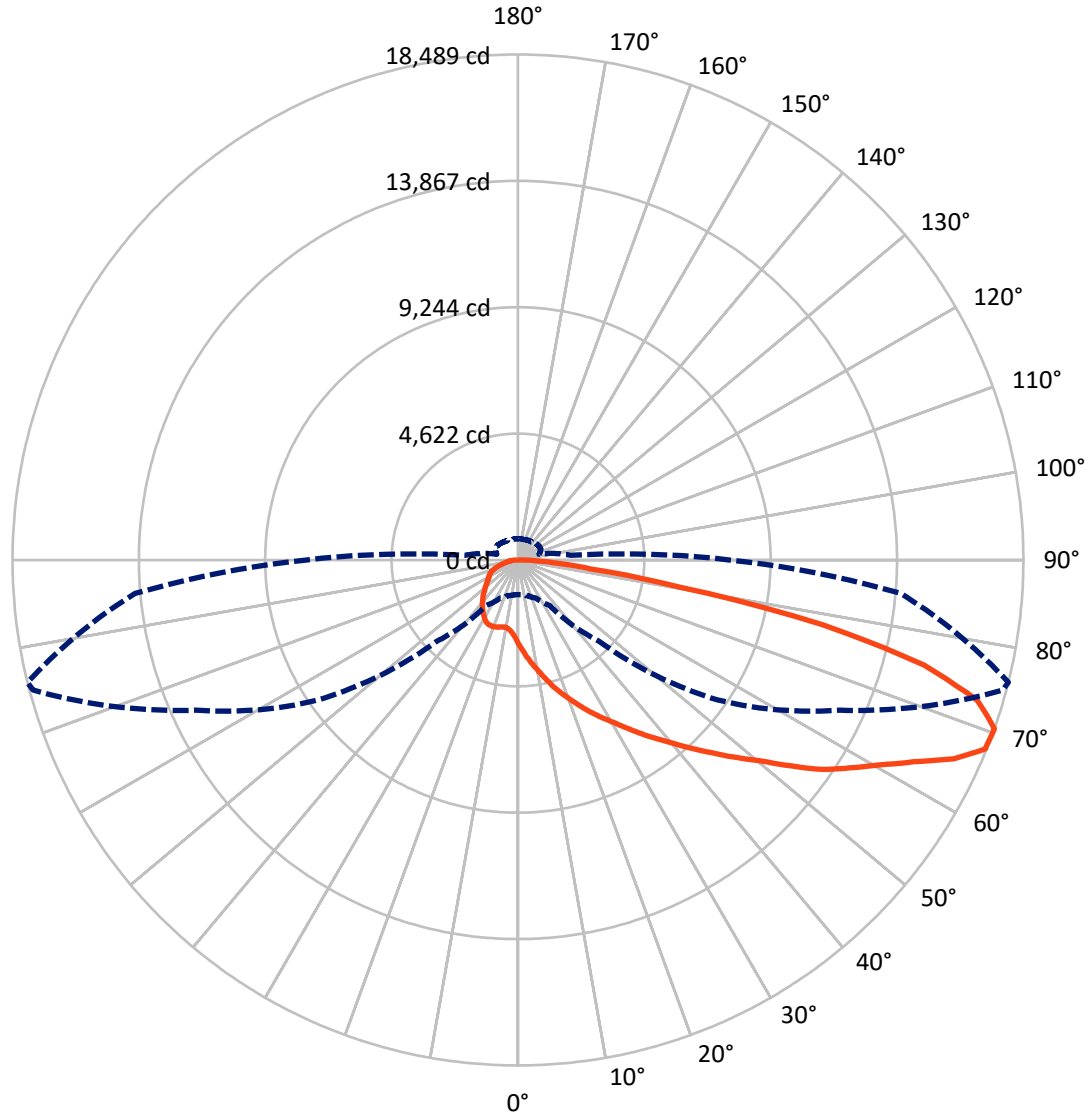
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.3 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	4003.9	0.0	4003.9
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	20521.0	0.0	20521.0
	% Fixture	83.7	0.0	83.7
Total	Lumens	24525.0	0.0	24525.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	318.7	1.3
10°-20°	1083.1	4.4
20°-30°	1937.7	7.9
30°-40°	3134.6	12.8
40°-50°	4534.6	18.5
50°-60°	5190.1	21.2
60°-70°	4774.3	19.5
70°-80°	2952.4	12.0
80°-90°	599.5	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°	24525.0	100.0
0°-180°	24525.0	100.0

Coefficient of Utilization



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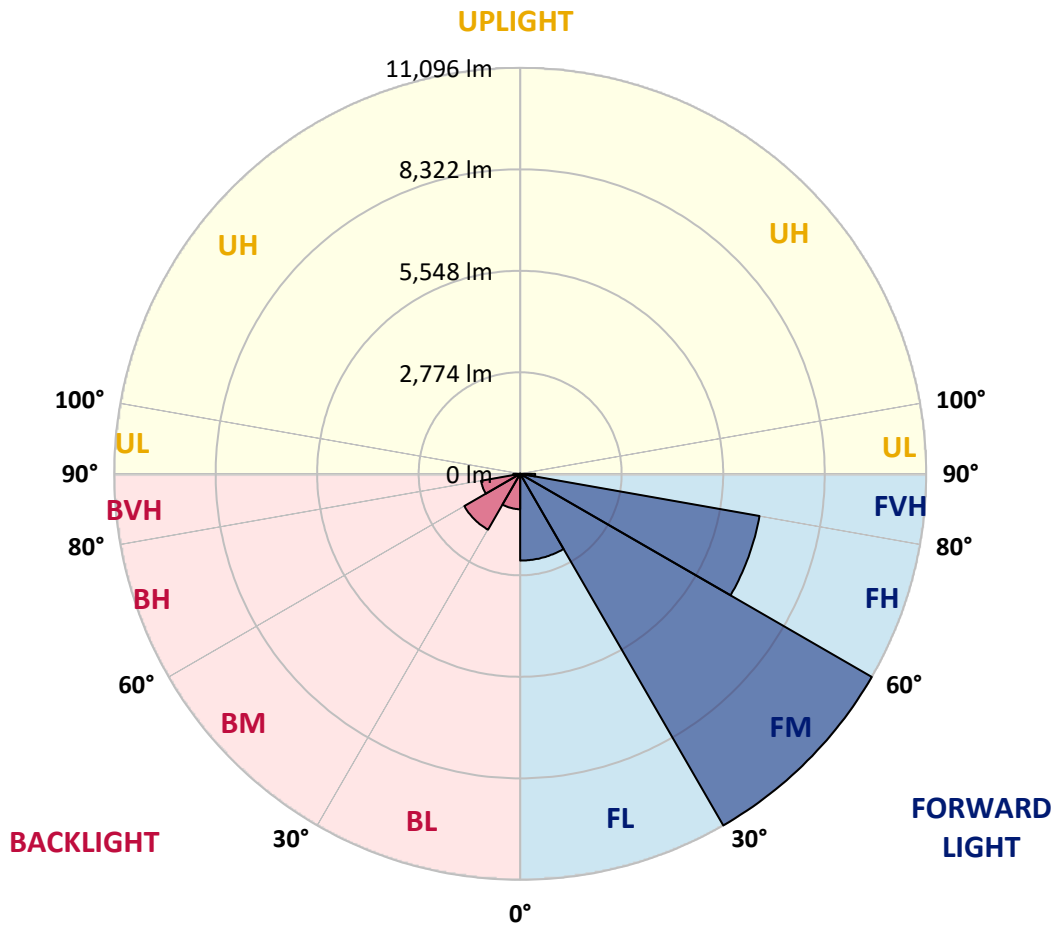
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2372.4	9.7			
FM (30°-60°)	11096.4	45.2			
FH (60°-80°)	6640.7	27.1			G3/7500
FVH (80°-90°)	411.6	1.7			G3/500
BL (0°-30°)	967.1	3.9	B2/1000		
BM (30°-60°)	1762.9	7.2	B2/2500		
BH (60°-80°)	1086.0	4.4	B3/2500		G3/2500
BVH (80°-90°)	187.9	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	3067.0	3067.0	3067.0	3067.0	3067.0	3067.0	3067.0	3067.0	3067.0	3067.0	3067.0
2.5°	3908.7	3879.7	3876.4	3831.3	3789.4	3676.5	3595.9	3454.0	3312.1	3308.8	3166.9
5°	4518.2	4489.2	4473.0	4418.2	4347.3	4198.9	4053.8	3834.5	3592.6	3576.5	3308.8
7.5°	4931.0	4905.2	4872.9	4850.4	4782.6	4650.4	4473.0	4211.8	3879.7	3847.4	3473.3
10°	5208.3	5192.2	5185.8	5169.6	5127.7	5021.3	4850.4	4573.0	4166.7	4131.2	3647.5
12.5°	5327.7	5321.2	5350.2	5395.4	5411.5	5369.6	5205.1	4943.9	4482.7	4444.0	3857.1
15°	5189.0	5195.4	5269.6	5424.4	5588.9	5679.2	5582.4	5327.7	4840.7	4785.9	4102.2
17.5°	5124.5	5134.2	5185.8	5334.1	5566.3	5846.9	5892.0	5692.1	5185.8	5108.4	4360.2
20°	5237.4	5250.3	5289.0	5405.1	5566.3	5866.2	6101.7	6040.4	5524.4	5443.8	4608.5
22.5°	5524.4	5540.5	5537.3	5611.5	5721.1	5927.5	6217.8	6369.3	5879.1	5788.8	4866.5
25°	6137.1	6124.2	6014.6	5979.1	6008.1	6140.4	6372.6	6685.4	6250.0	6159.7	5137.4
27.5°	6969.2	6953.1	6753.1	6572.5	6411.3	6469.3	6591.9	6940.2	6627.3	6524.1	5395.4
30°	7859.3	7839.9	7607.7	7314.3	6956.3	6872.4	6856.3	7162.7	7007.9	6898.2	5669.5
32.5°	8726.8	8710.7	8462.3	8120.5	7627.1	7375.5	7220.7	7411.0	7440.0	7333.6	5969.4
35°	9516.9	9516.9	9304.1	8897.7	8339.8	7959.3	7704.5	7717.4	7936.7	7814.1	6311.3
37.5°	10220.0	10216.7	9984.5	9584.6	9049.3	8613.9	8297.9	8088.3	8410.7	8304.3	6669.3
40°	10777.9	10755.3	10584.4	10236.1	9697.5	9265.4	8946.1	8523.6	8939.6	8842.9	7049.8
42.5°	11184.2	11171.3	11055.2	10752.1	10239.3	9833.0	9613.7	9071.9	9539.5	9442.7	7494.9
45°	11342.3	11368.1	11368.1	11081.0	10674.7	10303.8	10207.1	9674.9	10187.7	10091.0	7972.2
47.5°	11087.5	11155.2	11293.9	11313.2	10955.3	10703.7	10736.0	10281.2	10855.3	10803.7	8494.6
50°	10290.9	10416.7	10719.8	11268.1	11068.1	11010.1	11187.5	10900.4	11571.2	11555.1	9129.9
52.5°	8236.6	8543.0	9487.9	10471.5	10990.7	11152.0	11635.7	11597.0	12493.6	12519.4	9958.7
55°	6317.7	6433.8	7527.1	9200.9	10516.7	11106.8	11935.7	12277.5	13493.3	13525.6	10719.8
57.5°	5108.4	5185.8	5782.4	7527.1	9436.3	10861.7	12171.1	12674.2	14260.9	14344.7	11397.1
60°	4047.4	4160.2	4560.1	5759.8	7923.8	10271.6	12335.5	13116.0	15086.5	15212.2	12206.6
62.5°	3008.9	3063.7	3441.1	4266.6	6272.6	9210.5	12248.5	13596.5	16099.1	16250.7	13180.5
65°	2141.4	2189.8	2457.4	3034.7	4637.5	7775.4	11742.2	13954.5	17369.7	17524.5	14160.9
67.5°	1602.8	1622.2	1773.7	2122.0	3125.0	6040.4	10716.6	13893.2	18298.5	18437.2	14554.3
70°	1267.4	1273.9	1348.0	1535.1	2031.7	4205.4	8920.3	12993.4	18366.3	18488.8	14057.7
72.5°	1051.3	1048.1	1090.0	1180.3	1415.8	2660.6	6608.0	11322.9	17495.5	17579.4	12670.9
75°	867.5	874.0	903.0	954.6	1080.4	1754.4	4282.8	9033.2	15434.8	15344.5	10632.8
77.5°	728.8	725.6	738.5	783.7	874.0	1261.0	2509.0	6527.4	11439.0	11393.9	6978.9
80°	586.9	593.4	612.7	651.4	735.3	961.0	1483.5	4073.2	6137.1	5972.7	3334.6
82.5°	393.4	454.7	493.4	538.6	635.3	709.5	941.7	2070.4	2744.5	2702.5	1512.5
85°	187.0	248.3	367.6	419.2	516.0	445.0	638.5	986.8	1373.8	1357.7	545.0
87.5°	38.7	38.7	196.7	235.4	319.3	190.3	354.7	428.9	664.3	622.4	222.5
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°	3067.0	3067.0	3067.0	3067.0	3067.0	3067.0	3067.0	3067.0	3067.0	3067.0	3067.0
2.5°	3083.1	2996.0	2821.9	2683.2	2541.3	2460.7	2360.7	2312.3	2302.6	2276.8	2296.2
5°	3137.9	2967.0	2638.0	2422.0	2276.8	2205.9	2170.4	2157.5	2154.3	2147.8	2147.8
7.5°	3212.1	2950.9	2521.9	2302.6	2209.1	2186.5	2196.2	2215.6	2218.8	2225.2	2222.0
10°	3302.4	2954.1	2457.4	2273.6	2228.5	2231.7	2263.9	2289.7	2302.6	2312.3	2309.1
12.5°	3428.2	2992.8	2447.8	2293.0	2273.6	2286.5	2318.8	2344.6	2357.5	2360.7	2360.7
15°	3592.6	3073.4	2470.3	2334.9	2318.8	2328.4	2347.8	2357.5	2360.7	2357.5	2357.5
17.5°	3773.2	3170.2	2502.6	2360.7	2334.9	2325.2	2318.8	2309.1	2289.7	2276.8	2276.8
20°	3947.4	3257.2	2518.7	2357.5	2312.3	2273.6	2234.9	2186.5	2154.3	2128.5	2128.5
22.5°	4121.5	3337.9	2518.7	2322.0	2251.0	2176.9	2096.2	2018.8	1970.5	1938.2	1938.2
25°	4305.3	3415.3	2499.4	2260.7	2154.3	2047.9	1938.2	1841.5	1793.1	1760.8	1754.4
27.5°	4460.1	3460.4	2447.8	2173.6	2035.0	1899.5	1773.7	1673.8	1638.3	1609.3	1609.3
30°	4624.6	3489.4	2351.0	2060.8	1899.5	1744.7	1615.7	1535.1	1496.4	1454.5	1451.2
32.5°	4808.4	3508.8	2241.4	1941.4	1760.8	1596.4	1486.7	1422.2	1338.4	1293.2	1286.8
35°	5021.3	3534.6	2125.3	1806.0	1622.2	1473.8	1409.3	1302.9	1222.3	1183.6	1180.3
37.5°	5247.0	3553.9	1999.5	1686.7	1496.4	1393.2	1328.7	1202.9	1132.0	1073.9	1067.5
40°	5485.7	3553.9	1870.5	1570.6	1396.4	1357.7	1235.2	1122.3	1003.0	973.9	967.5
42.5°	5750.1	3547.5	1741.5	1457.7	1302.9	1277.1	1180.3	1061.0	999.7	973.9	967.5
45°	6030.7	3524.9	1618.9	1328.7	1206.1	1154.5	1080.4	1048.1	1022.3	1022.3	1022.3
47.5°	6350.0	3505.6	1480.3	1212.6	1135.2	1077.1	1022.3	1003.0	999.7	1009.4	1019.1
50°	6759.6	3499.1	1364.2	1128.7	1080.4	1012.6	1006.2	990.1	993.3	993.3	993.3
52.5°	7256.2	3441.1	1254.5	1067.5	1025.5	944.9	964.3	980.4	986.8	983.6	980.4
55°	7620.6	3337.9	1161.0	1025.5	986.8	919.1	944.9	970.7	977.2	967.5	967.5
57.5°	7949.6	3192.7	1086.8	993.3	961.0	903.0	932.0	957.8	951.4	948.1	944.9
60°	8326.9	3054.1	1028.8	977.2	935.2	896.5	922.3	938.5	928.8	922.3	919.1
62.5°	8736.5	2918.6	986.8	977.2	915.9	893.3	912.7	919.1	899.8	893.3	893.3
65°	8926.7	2705.8	941.7	977.2	906.2	886.9	893.3	886.9	867.5	867.5	864.3
67.5°	8613.9	2354.2	883.6	964.3	919.1	877.2	864.3	854.6	832.0	832.0	825.6
70°	7749.6	1935.0	799.8	922.3	922.3	874.0	825.6	803.0	777.2	786.9	774.0
72.5°	6620.9	1535.1	696.6	851.4	903.0	870.7	783.7	748.2	725.6	735.3	715.9
75°	5363.1	1190.0	574.0	738.5	854.6	854.6	741.7	693.4	667.6	667.6	645.0
77.5°	3418.5	880.4	467.6	612.7	767.5	832.0	706.3	632.1	593.4	583.7	567.6
80°	1693.1	619.2	383.8	487.0	654.7	780.4	680.5	561.1	506.3	487.0	457.9
82.5°	899.8	428.9	306.4	380.5	522.4	703.0	648.2	483.7	416.0	387.0	354.7
85°	403.1	264.4	245.1	290.2	396.7	577.3	583.7	396.7	319.3	380.5	280.6
87.5°	148.3	119.3	119.3	148.3	229.0	241.9	412.8	254.8	203.2	138.7	109.6
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)