Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P230979

Luminaire Tested: **ARCH-M-AF48-120-D-U-5WQ-7050**

Issue Date: 3/3/2020

Report Generated By E9812814

Test Information

Test Method:	LM-79-08
Report Number:	P230979
	TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab:	INNOVATION CENTER-P2
Issue Date:	3/3/2020
Manufacturer:	COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line:	STREETWORKS
Catalog Number:	ARCH-M-AF48-120-D-U-5WQ-7050
Description:	ARCHEON-M ROADWAY AND AREA LUMINAIRE
	(2) 70 CRI, 5000K, 785mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source:	-
Ballast/Driver:	ELECTRONIC DRIVER

Summary

Lumens per Lamp:	N/A
Luminaire Lumens:	15688 lumens
Efficiency:	N/A
Efficacy:	128.6 lumens/watt
Luminous Opening:	Rectangular (W 0.75' x L: 1' x H: 0')
IES Classification:	Type V - Short - Non-Cutoff
BUG Rating:	B4 - U0 - G3

Input Watts (W):	122
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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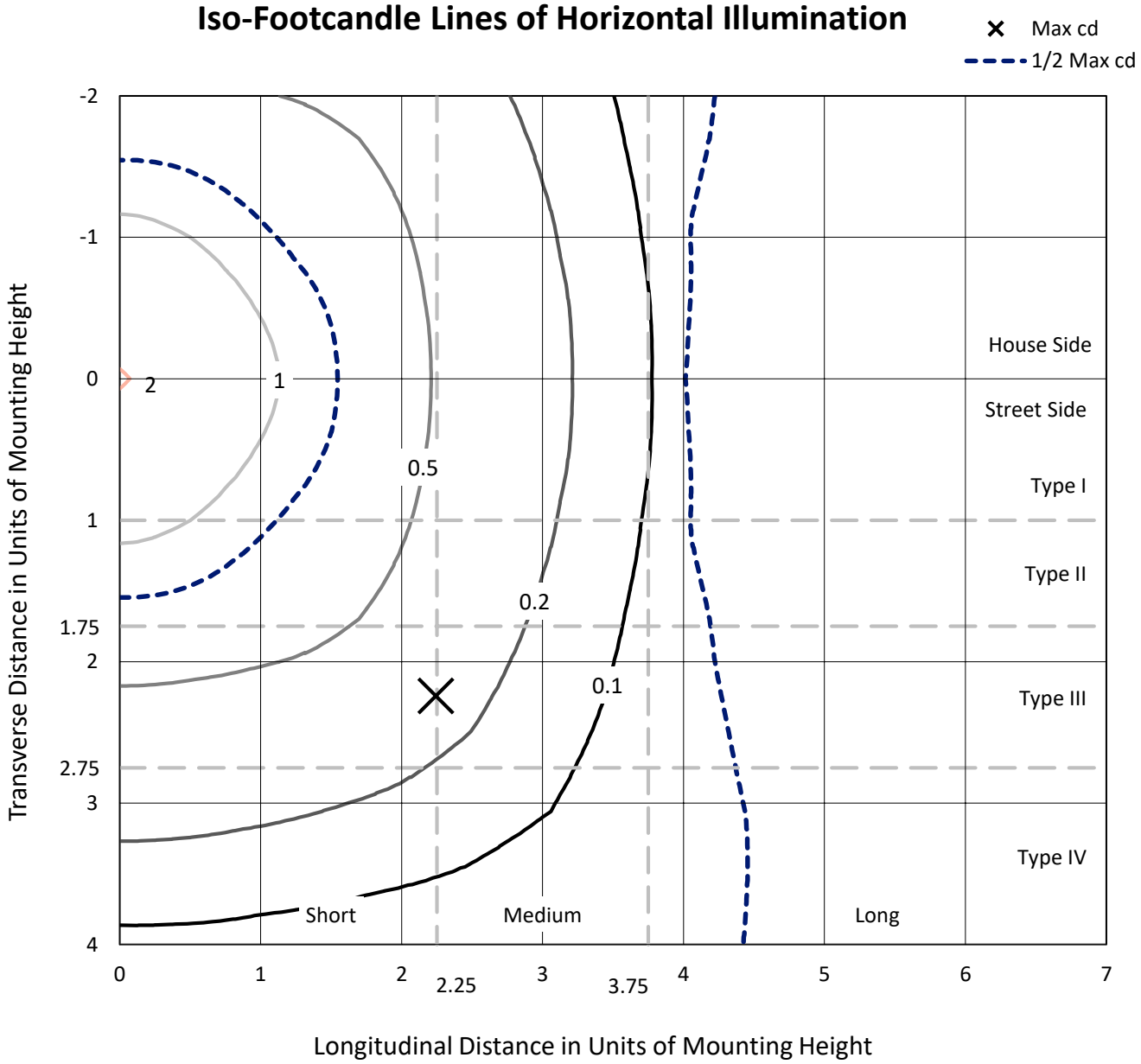
Iso-Footcandle Lines of Horizontal Illumination



Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
Type V - Short - Non-Cutoff

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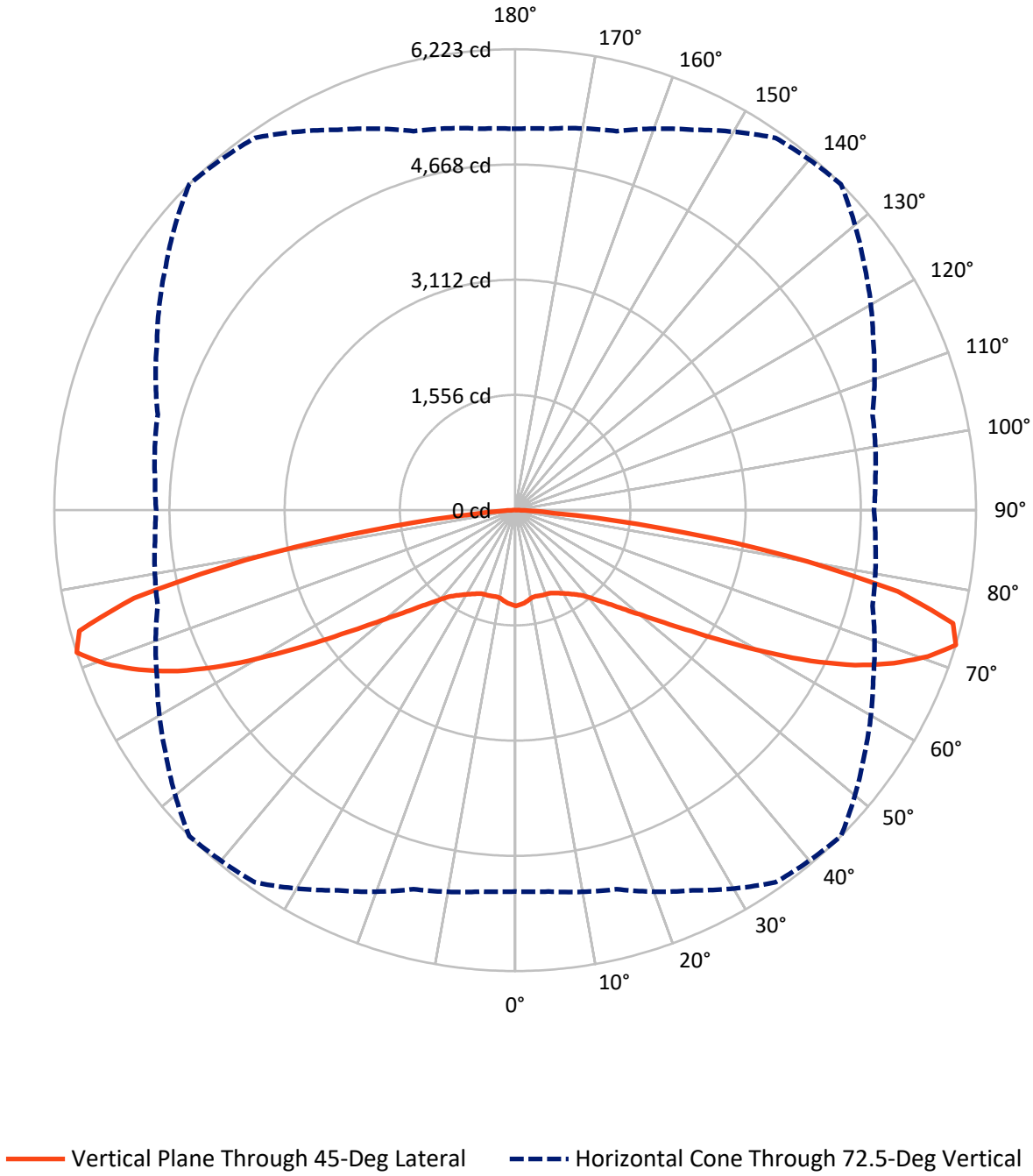
Luminous Intensity Polar Plot



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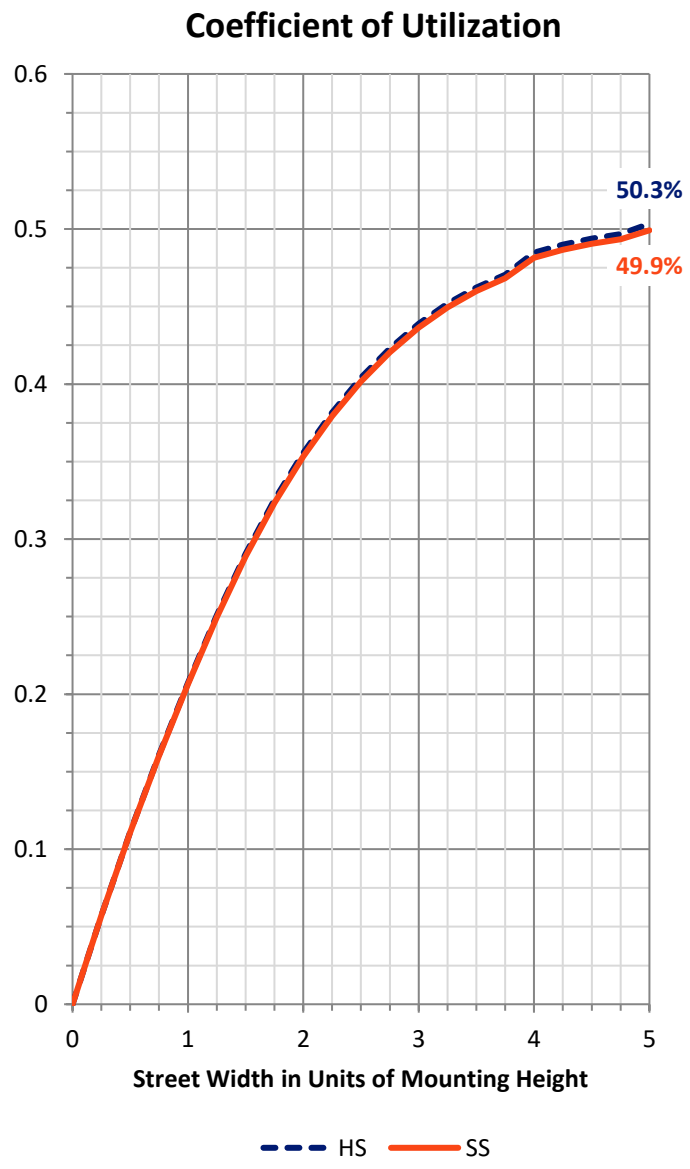
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7844.0	0.0	7844.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7844.0	0.0	7844.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	15688.0	0.0	15688.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	119.0	0.8
10°-20°	343.3	2.2
20°-30°	574.5	3.7
30°-40°	882.7	5.6
40°-50°	1461.5	9.3
50°-60°	2598.3	16.6
60°-70°	4545.6	29.0
70°-80°	4624.8	29.5
80°-90°	538.5	3.4
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°	15688.0	100.0
0°-180°	15688.0	100.0



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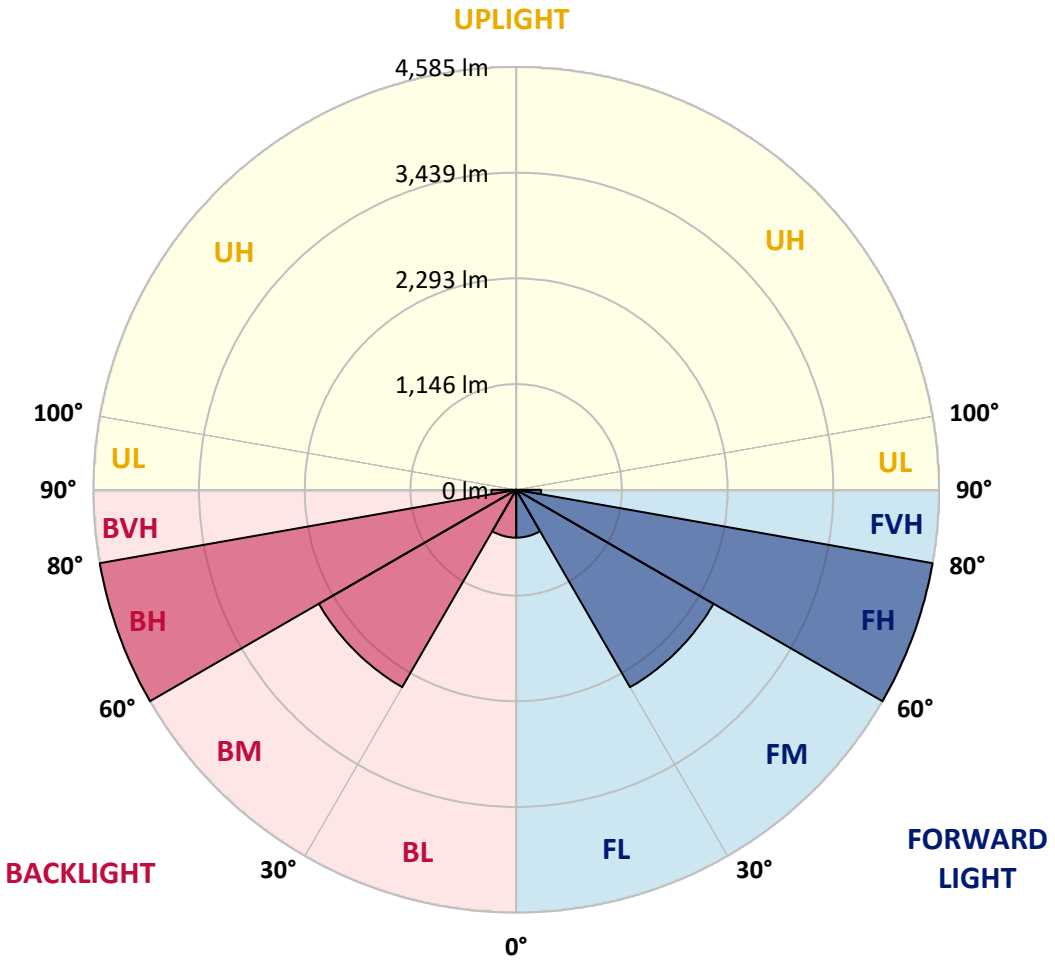
LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit B	U	G
FL	(0°-30°)	518.4	3.3			
FM	(30°-60°)	2471.2	15.8			
FH	(60°-80°)	4585.2	29.2			G2/5000
FVH	(80°-90°)	269.3	1.7			G3/500
BL	(0°-30°)	518.4	3.3	B2/1000		
BM	(30°-60°)	2471.2	15.8	B2/2500		
BH	(60°-80°)	4585.2	29.2	B4/5000		G2/5000
BVH	(80°-90°)	269.3	1.7			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G3
Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1293.1	1293.1	1293.1	1293.1	1293.1	*1293.1*	1293.1	1293.1	1293.1	1293.1	1293.1
2.5°	1281.1	1284.1	1278.1	1278.1	1278.1	*1275.1*	1278.1	1275.1	1278.1	1281.1	1281.1
5°	1269.2	1269.2	1263.2	1263.2	1263.2	*1260.2*	1263.2	1263.2	1266.2	1269.2	1269.2
7.5°	1242.3	1242.3	1239.3	1236.3	1233.3	*1233.3*	1236.3	1236.3	1239.3	1242.3	1242.3
10°	1227.4	1224.4	1218.4	1209.4	1206.5	*1203.5*	1209.4	1215.4	1224.4	1233.3	1230.3
12.5°	1221.4	1218.4	1206.5	1197.5	1191.5	*1194.5*	1200.5	1206.5	1221.4	1230.3	1227.4
15°	1227.4	1221.4	1206.5	1191.5	1194.5	*1200.5*	1206.5	1206.5	1224.4	1233.3	1233.3
17.5°	1227.4	1224.4	1206.5	1194.5	1197.5	*1206.5*	1209.4	1206.5	1221.4	1236.3	1236.3
20°	1230.3	1230.3	1206.5	1197.5	1200.5	*1209.4*	1212.4	1209.4	1221.4	1239.3	1239.3
22.5°	1236.3	1233.3	1209.4	1203.5	1209.4	*1215.4*	1218.4	1215.4	1227.4	1242.3	1245.3
25°	1248.3	1242.3	1221.4	1218.4	1230.3	*1239.3*	1239.3	1233.3	1239.3	1254.2	1254.2
27.5°	1263.2	1260.2	1236.3	1236.3	1251.2	*1269.2*	1260.2	1248.3	1254.2	1269.2	1269.2
30°	1290.1	1287.1	1263.2	1263.2	1284.1	*1305.0*	1284.1	1269.2	1278.1	1293.1	1296.0
32.5°	1328.9	1328.9	1308.0	1302.0	1337.8	*1346.8*	1337.8	1308.0	1314.0	1334.9	1334.9
35°	1394.6	1388.6	1367.7	1364.7	1400.6	*1397.6*	1394.6	1367.7	1373.7	1397.6	1397.6
37.5°	1481.2	1478.2	1460.3	1451.3	1469.2	*1457.3*	1463.3	1451.3	1466.3	1484.2	1487.2
40°	1591.7	1588.7	1573.8	1561.8	1567.8	*1549.9*	1555.8	1561.8	1576.8	1588.7	1591.7
42.5°	1729.1	1729.1	1714.1	1693.2	1684.3	*1675.3*	1675.3	1687.2	1702.2	1717.1	1717.1
45°	1899.3	1899.3	1881.4	1860.4	1833.6	*1818.6*	1824.6	1836.6	1854.5	1872.4	1878.4
47.5°	2099.3	2099.3	2075.5	2054.6	2027.7	*2009.8*	2009.8	2015.7	2042.6	2057.5	2066.5
50°	2323.3	2314.4	2290.5	2269.6	2254.6	*2230.7*	2233.7	2230.7	2254.6	2275.5	2281.5
52.5°	2556.2	2553.3	2529.4	2523.4	2532.4	*2520.4*	2520.4	2490.6	2499.5	2511.5	2508.5
55°	2845.9	2837.0	2816.1	2828.0	2863.8	*2881.8*	2875.8	2828.0	2801.1	2807.1	2804.1
57.5°	3162.5	3153.5	3147.5	3183.4	3264.0	*3338.7*	3323.7	3213.2	3162.5	3165.4	3168.4
60°	3485.0	3485.0	3502.9	3592.5	3765.7	*3888.1*	3843.3	3658.2	3568.6	3550.7	3544.7
62.5°	3816.5	3825.4	3864.2	4013.5	4279.3	*4482.4*	4368.9	4106.1	3971.7	3935.9	3924.0
65°	4201.7	4210.6	4267.4	4452.5	4804.9	*5046.8*	4852.7	4604.8	4416.7	4342.0	4330.1
67.5°	4760.1	4766.1	4810.9	4990.1	5321.5	*5515.6*	5315.6	5094.6	4891.5	4804.9	4798.9
70°	5261.8	5267.8	5306.6	5542.5	5847.1	*5915.8*	5694.8	5414.1	5202.1	5133.4	5121.5
72.5°	*5148.3*	*5169.2*	*5297.6*	*5665.0*	*6133.8*	*6223.4*	*5757.5*	*5336.5*	*4996.0*	*4882.6*	*4846.7*
75°	4318.1	4351.0	4554.1	5106.5	5853.1	*6106.9*	5387.2	4613.8	4106.1	3888.1	3831.4
77.5°	2520.4	2642.9	2992.2	3700.0	4766.1	*5282.7*	4437.6	3377.5	2523.4	2165.0	2045.6
80°	689.8	755.5	1009.4	1702.2	2989.3	*3700.0*	2831.0	1549.9	836.2	627.1	582.3
82.5°	218.0	289.7	367.3	489.7	1173.6	*1950.0*	1051.2	456.9	358.4	295.6	262.8
85°	116.5	125.4	206.1	238.9	352.4	*546.5*	325.5	238.9	215.0	158.3	149.3
87.5°	59.7	62.7	116.5	116.5	155.3	*128.4*	140.4	128.4	122.4	77.6	68.7
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)