

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: P147998

Luminaire Tested: **TMU-E05-LED-E-U-5WQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P147998
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33675)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TMU-E05-LED-E-U-5WQ-8030
Description: TALON MEDIUM LED AREA LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE WIDE
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13435.5 lumens
Efficiency: N/A
Efficacy: 105.5 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B4 - U0 - G2

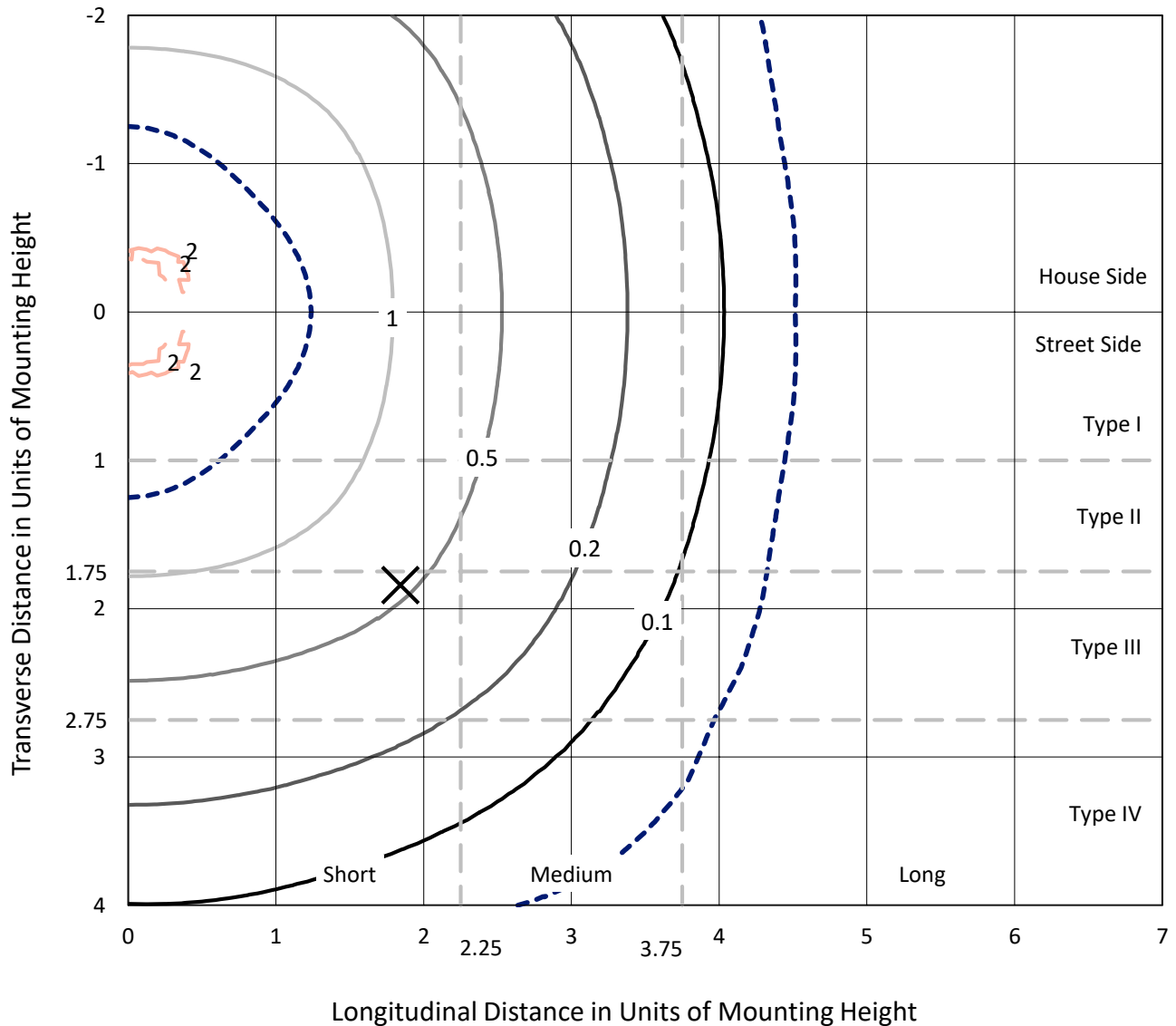
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

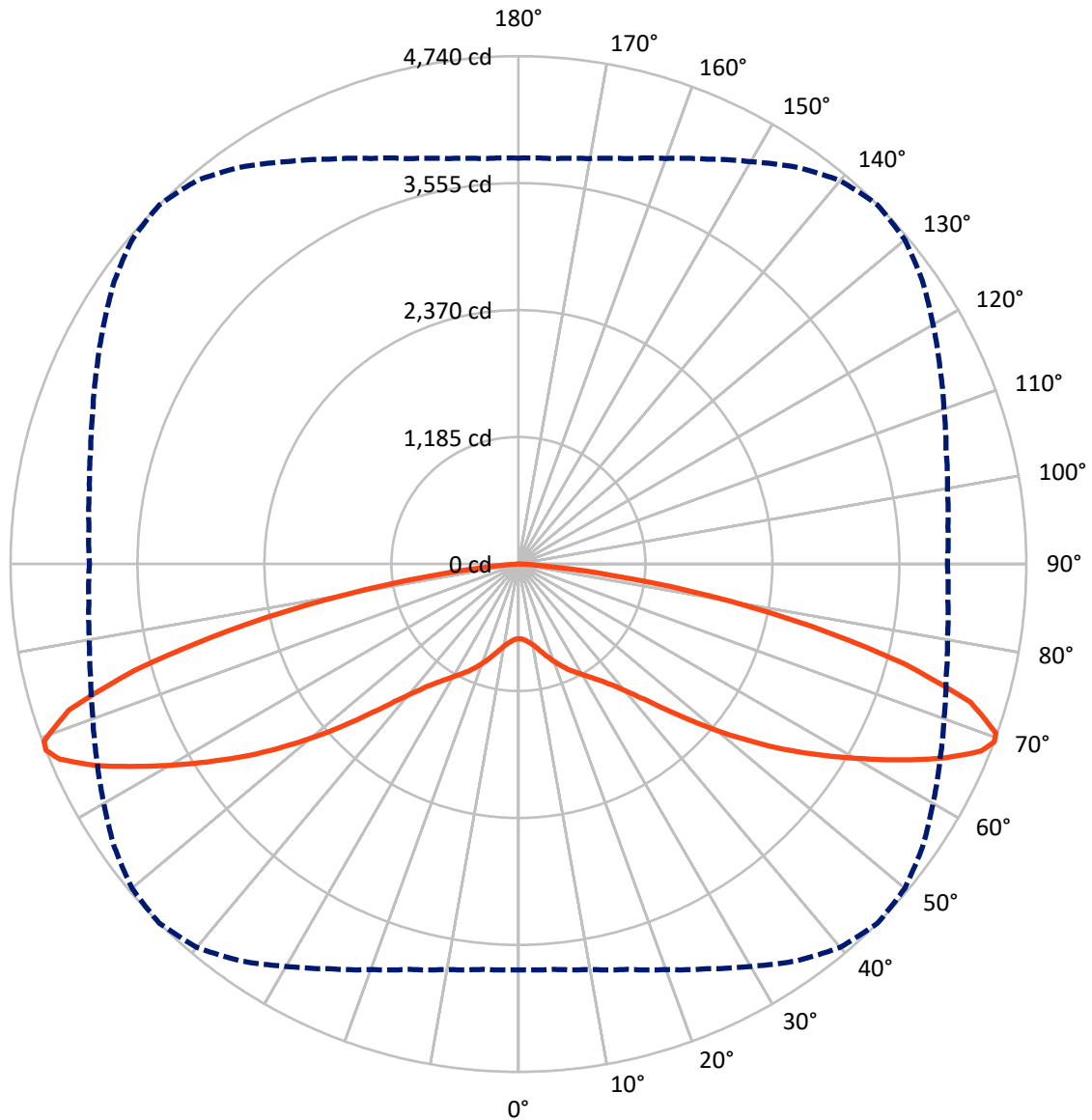
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 2 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6717.7	0.0	6717.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	6717.7	0.0	6717.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	13435.5	0.0	13435.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.1	0.5
10°-20°	247.4	1.8
20°-30°	500.9	3.7
30°-40°	839.9	6.3
40°-50°	1481.4	11.0
50°-60°	2612.4	19.4
60°-70°	3988.4	29.7
70°-80°	3332.8	24.8
80°-90°	362.1	2.7
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°	13435.5	100.0
0°-180°	13435.5	100.0



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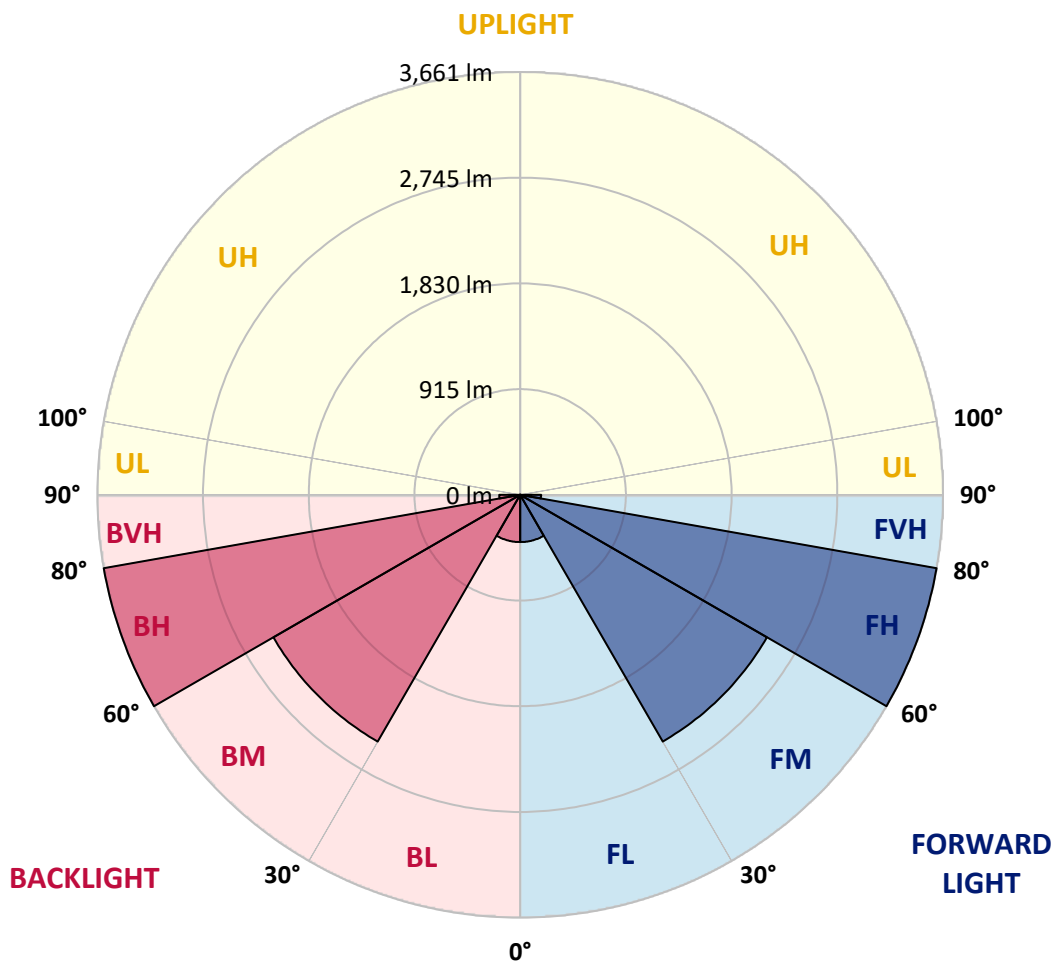
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	409.2	3.0			
FM	(30°-60°)	2466.9	18.4			
FH	(60°-80°)	3660.6	27.2			G2/5000
FVH	(80°-90°)	181.1	1.3			G2/225
BL	(0°-30°)	409.2	3.0	B1/500		
BM	(30°-60°)	2466.9	18.4	B2/2500		
BH	(60°-80°)	3660.6	27.2	B4/5000		G2/5000
BVH	(80°-90°)	181.1	1.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	697.7	697.7	697.7	697.7	697.7	697.7	697.7	697.7	697.7	697.7	697.7
2.5°	703.3	704.7	703.3	703.3	703.3	703.3	703.3	701.9	701.9	701.9	703.3
5°	717.4	718.8	717.4	718.8	718.8	718.8	718.8	717.4	717.4	717.4	717.4
7.5°	739.9	739.9	739.9	741.3	739.9	739.9	741.3	739.9	739.9	739.9	739.9
10°	772.3	770.8	770.8	770.8	770.8	770.8	772.3	772.3	772.3	770.8	770.8
12.5°	811.6	810.2	811.6	811.6	813.0	813.0	813.0	813.0	813.0	813.0	811.6
15°	859.5	859.5	859.5	860.9	863.7	863.7	862.3	863.7	863.7	863.7	863.7
17.5°	912.9	915.7	912.9	914.3	915.7	914.3	917.1	918.5	920.0	918.5	914.3
20°	967.8	969.2	969.2	969.2	969.2	972.0	973.4	973.4	977.6	976.2	974.8
22.5°	1019.8	1022.6	1022.6	1024.0	1024.0	1028.3	1028.3	1028.3	1031.1	1033.9	1031.1
25°	1074.7	1073.3	1073.3	1076.1	1077.5	1083.1	1083.1	1085.9	1090.2	1091.6	1088.7
27.5°	1123.9	1122.5	1122.5	1126.7	1128.1	1135.2	1135.2	1140.8	1143.6	1145.0	1142.2
30°	1176.0	1176.0	1174.6	1178.8	1183.0	1188.6	1191.4	1197.1	1201.3	1202.7	1199.9
32.5°	1237.9	1235.0	1236.4	1239.3	1242.1	1247.7	1251.9	1259.0	1264.6	1266.0	1263.2
35°	1308.2	1304.0	1305.4	1308.2	1312.4	1320.8	1327.9	1332.1	1340.5	1343.4	1337.7
37.5°	1385.6	1387.0	1385.6	1392.6	1399.6	1409.5	1417.9	1423.5	1432.0	1436.2	1432.0
40°	1495.3	1491.1	1495.3	1502.3	1513.6	1526.2	1543.1	1547.3	1555.8	1564.2	1554.3
42.5°	1637.3	1634.5	1644.4	1650.0	1662.7	1676.7	1697.8	1709.1	1721.7	1727.4	1718.9
45°	1823.0	1823.0	1834.3	1835.7	1855.4	1873.7	1903.2	1917.3	1941.2	1941.2	1941.2
47.5°	2028.4	2036.8	2043.9	2057.9	2072.0	2105.8	2135.3	2166.2	2188.7	2191.6	2187.3
50°	2240.8	2249.2	2270.3	2290.0	2321.0	2363.2	2395.5	2436.3	2456.0	2472.9	2467.3
52.5°	2475.7	2477.1	2502.4	2527.8	2572.8	2619.2	2671.2	2713.4	2748.6	2764.1	2751.4
55°	2733.1	2735.9	2758.4	2785.2	2835.8	2889.3	2954.0	2997.6	3042.6	3070.7	3049.6
57.5°	3011.6	3013.0	3035.6	3067.9	3128.4	3181.8	3243.7	3305.6	3347.8	3373.2	3359.1
60°	3319.7	3326.7	3343.6	3384.4	3442.1	3498.3	3560.2	3615.1	3664.3	3691.1	3677.0
62.5°	3648.9	3655.9	3679.8	3712.2	3762.8	3824.7	3883.8	3954.1	3994.9	4024.4	4003.3
65°	3869.7	3882.4	3920.3	3963.9	4038.5	4118.7	4187.6	4283.3	4332.5	4367.7	4348.0
67.5°	3883.8	3890.8	3937.2	4003.3	4103.2	4224.2	4364.8	4513.9	4611.0	4657.4	4623.7
69°	3788.1	3798.0	3843.0	3917.5	4028.7	4169.3	4336.7	4522.4	4671.5	4740.4	4708.1
70°	3679.8	3700.9	3750.1	3831.7	3940.0	4087.7	4260.7	4459.1	4633.5	4727.8	4703.8
72.5°	3451.9	3457.5	3489.9	3554.6	3637.6	3760.0	3923.2	4110.2	4276.2	4411.3	4431.0
75°	3063.7	3082.0	3105.9	3149.5	3191.7	3280.3	3390.0	3518.0	3615.1	3719.2	3723.4
77.5°	2315.3	2370.2	2388.5	2398.3	2416.6	2487.0	2582.6	2693.7	2773.9	2790.8	2788.0
80°	1039.5	1112.7	1129.5	1209.7	1259.0	1375.7	1522.0	1692.2	1806.1	1818.8	1787.9
82.5°	204.0	218.0	254.6	317.9	433.2	502.2	597.8	717.4	827.1	890.4	852.4
85°	67.5	71.7	83.0	91.4	105.5	119.6	144.9	180.1	223.7	247.6	220.8
87.5°	26.7	26.7	30.9	33.8	36.6	36.6	36.6	33.8	32.4	26.7	23.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	697.7	697.7	697.7	697.7	697.7	697.7	697.7	697.7
2.5°	701.9	701.9	701.9	701.9	701.9	701.9	701.9	701.9
5°	717.4	716.0	716.0	714.6	714.6	714.6	714.6	714.6
7.5°	738.5	737.1	735.7	737.1	735.7	735.7	735.7	735.7
10°	770.8	768.0	766.6	765.2	765.2	765.2	763.8	763.8
12.5°	808.8	808.8	807.4	806.0	803.2	804.6	803.2	800.4
15°	860.9	858.1	856.7	855.2	852.4	852.4	852.4	851.0
17.5°	912.9	910.1	910.1	905.9	904.5	904.5	904.5	905.9
20°	970.6	966.4	963.6	960.7	957.9	959.3	956.5	959.3
22.5°	1028.3	1022.6	1019.8	1015.6	1011.4	1011.4	1010.0	1007.2
25°	1084.5	1077.5	1074.7	1070.5	1064.8	1064.8	1062.0	1059.2
27.5°	1138.0	1130.9	1128.1	1119.7	1114.1	1112.7	1109.8	1108.4
30°	1197.1	1188.6	1184.4	1176.0	1167.5	1166.1	1161.9	1161.9
32.5°	1259.0	1250.5	1247.7	1235.0	1228.0	1228.0	1225.2	1222.4
35°	1336.3	1323.7	1320.8	1308.2	1298.3	1298.3	1295.5	1296.9
37.5°	1427.8	1417.9	1408.1	1398.2	1387.0	1385.6	1382.7	1379.9
40°	1550.1	1538.9	1527.6	1513.6	1503.7	1500.9	1496.7	1495.3
42.5°	1713.3	1702.0	1679.5	1668.3	1658.4	1650.0	1648.6	1647.2
45°	1921.5	1907.4	1891.9	1870.8	1858.2	1839.9	1837.1	1830.1
47.5°	2171.9	2145.1	2118.4	2100.1	2080.4	2059.3	2055.1	2043.9
50°	2437.7	2416.6	2371.6	2342.1	2311.1	2290.0	2276.0	2271.7
52.5°	2723.3	2683.9	2638.9	2599.5	2554.5	2526.3	2501.0	2494.0
55°	3021.5	2965.2	2909.0	2862.5	2817.5	2783.8	2759.9	2748.6
57.5°	3319.7	3257.8	3195.9	3145.3	3107.3	3063.7	3039.8	3034.1
60°	3630.6	3571.5	3508.2	3457.5	3411.1	3373.2	3359.1	3332.4
62.5°	3959.7	3897.8	3838.8	3789.5	3730.4	3703.7	3679.8	3664.3
65°	4283.3	4211.5	4137.0	4084.9	4025.8	3987.9	3958.3	3937.2
67.5°	4533.6	4425.3	4325.5	4238.2	4158.1	4099.0	4061.0	4041.3
69°	4604.0	4468.9	4340.9	4227.0	4132.7	4066.6	4024.4	4004.7
70°	4595.5	4446.4	4305.8	4180.6	4077.9	4007.6	3966.8	3930.2
72.5°	4335.3	4198.9	4042.7	3906.3	3813.4	3745.9	3705.1	3685.4
75°	3699.5	3608.1	3495.5	3390.0	3322.5	3283.1	3232.5	3233.9
77.5°	2693.7	2696.6	2620.6	2512.3	2436.3	2422.3	2399.7	2377.2
80°	1671.1	1537.5	1450.3	1333.5	1247.7	1173.1	1140.8	1070.5
82.5°	770.8	602.0	467.0	353.1	271.5	212.4	185.7	151.9
85°	171.6	130.8	108.3	87.2	74.6	68.9	56.3	52.0
87.5°	23.9	21.1	19.7	18.3	15.5	11.3	8.4	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)