

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: P157374

Luminaire Tested: **VST-F07-LED-E-U-5MQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157374
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33708)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F07-LED-E-U-5MQ-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (49) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16883.4 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 180.5
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

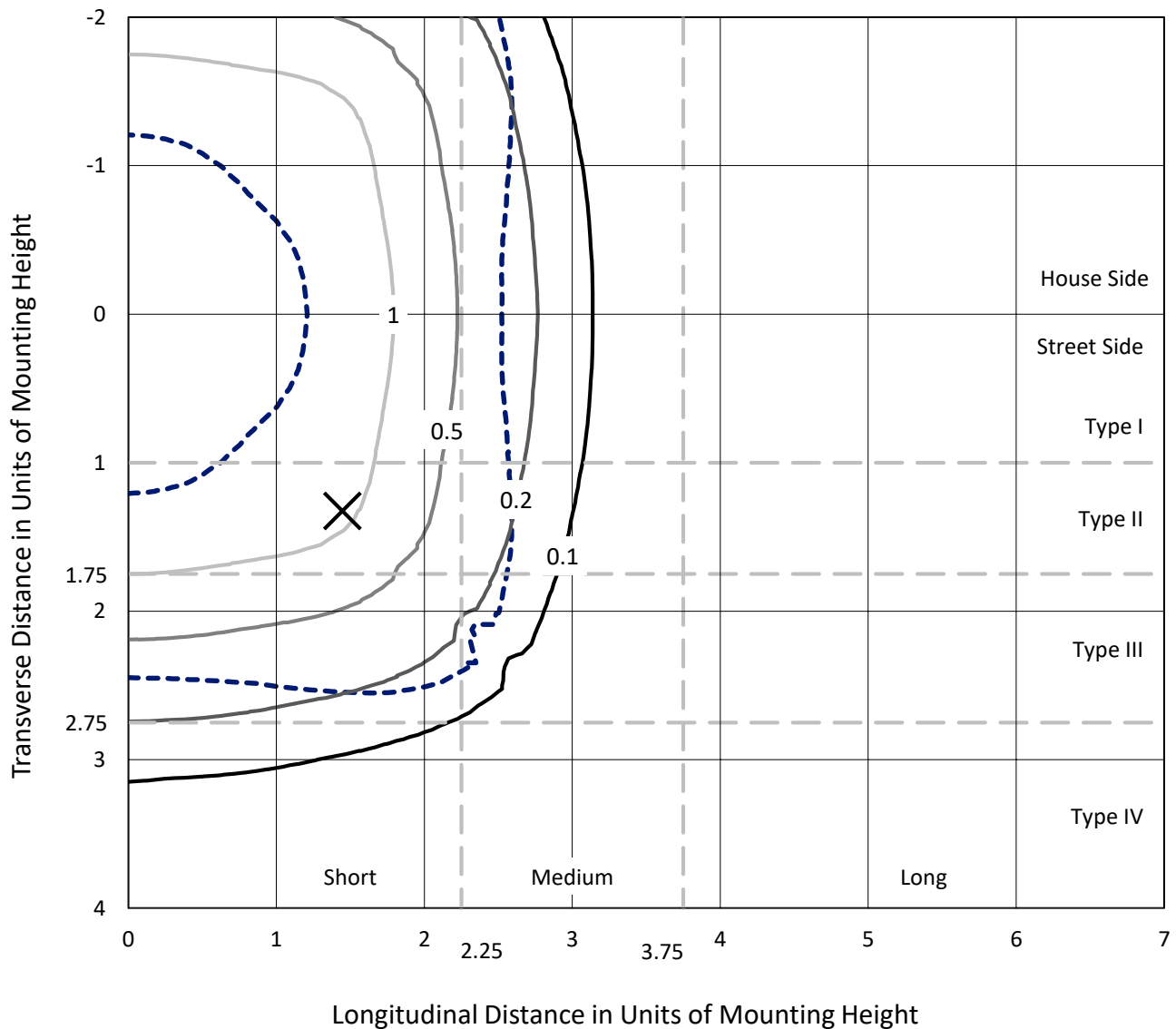


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

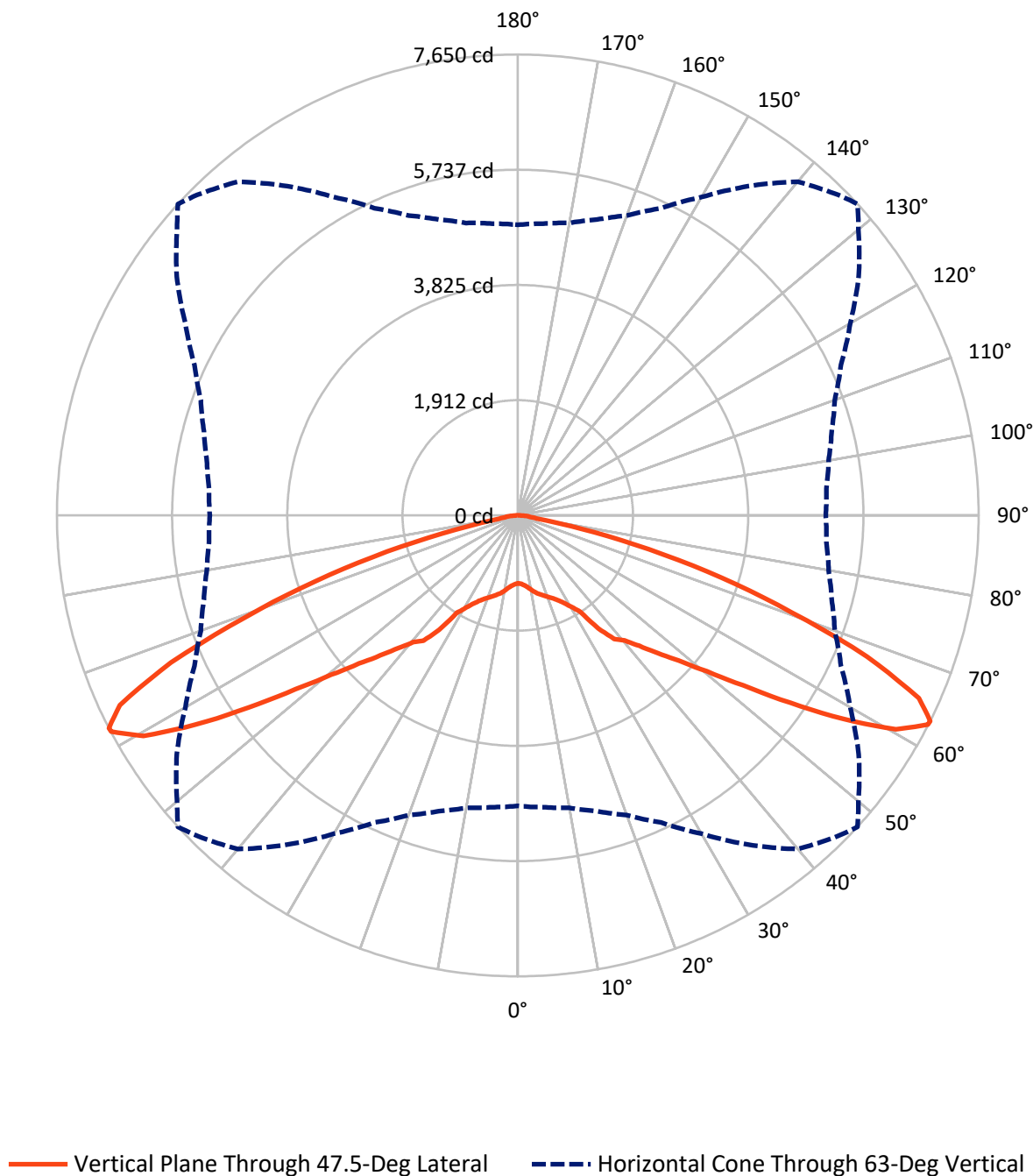


Based on 25 foot mounting height. Maximum calculated value = 2 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8441.7	0.0	8441.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	8441.7	0.0	8441.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	16883.4	0.0	16883.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	0.7
10°-20°	384.7	2.3
20°-30°	735.9	4.4
30°-40°	1407.8	8.3
40°-50°	2435.9	14.4
50°-60°	4374.7	25.9
60°-70°	5319.7	31.5
70°-80°	1921.2	11.4
80°-90°	190.3	1.1
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°	16883.4	100.0
0°-180°	16883.4	100.0

Coefficient of Utilization



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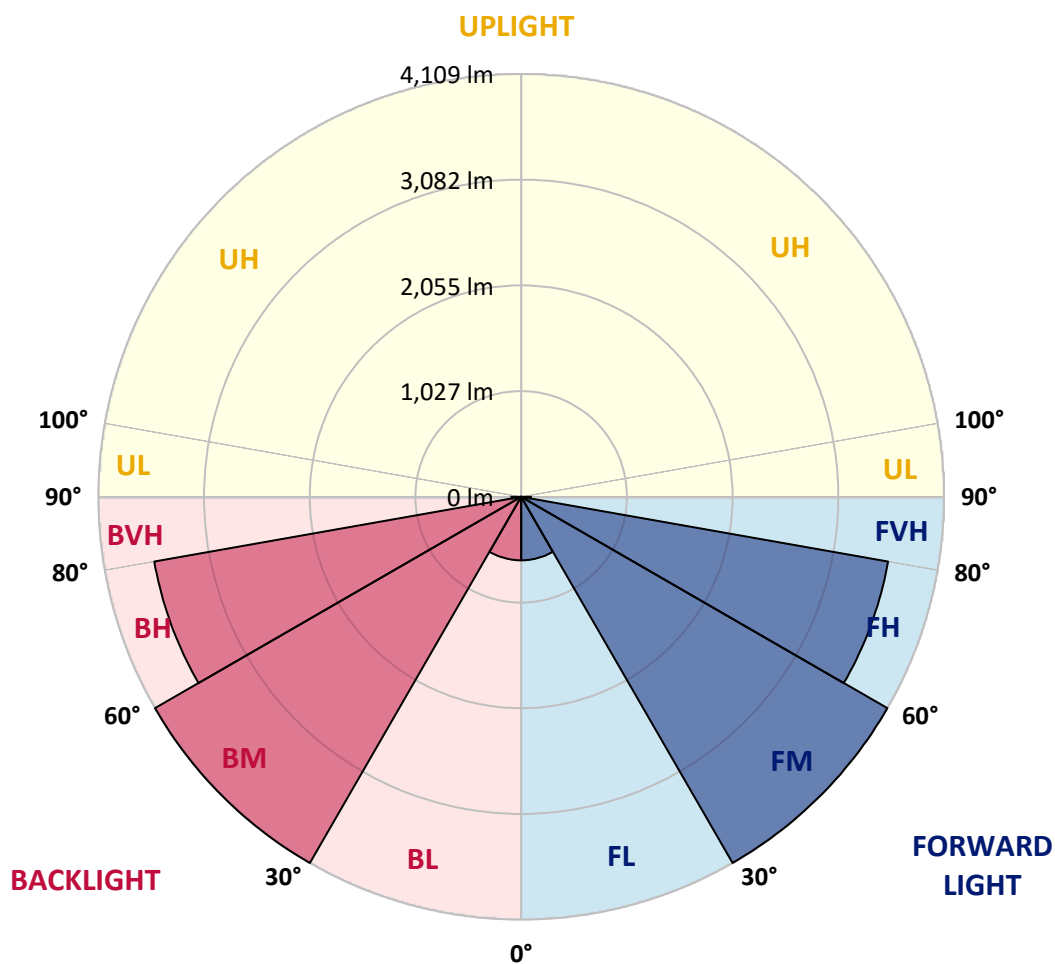
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	616.9	3.7			
FM	(30°-60°)	4109.2	24.3			
FH	(60°-80°)	3620.5	21.4			G2/5000
FVH	(80°-90°)	95.1	0.6			G1/100
BL	(0°-30°)	616.9	3.7	B2/1000		
BM	(30°-60°)	4109.2	24.3	B3/5000		
BH	(60°-80°)	3620.5	21.4	B4/5000		G2/5000
BVH	(80°-90°)	95.1	0.6			G1/100
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°	47.5°
0°	1127.4	1127.4	1127.4	1127.4	1127.4	1127.4	1127.4	1127.4	1127.4	1127.4	1127.4
2.5°	1134.8	1132.6	1133.7	1134.8	1133.7	1132.6	1132.6	1132.6	1134.8	1132.6	1137.9
5°	1156.9	1154.8	1155.9	1155.9	1155.9	1153.8	1153.8	1153.8	1152.7	1153.8	1165.4
7.5°	1199.2	1196.0	1194.9	1197.0	1194.9	1193.9	1192.8	1192.8	1190.7	1190.7	1205.5
10°	1249.8	1245.6	1247.7	1248.8	1245.6	1243.5	1243.5	1243.5	1240.3	1239.3	1258.3
12.5°	1305.8	1303.7	1303.7	1301.5	1300.5	1298.4	1297.3	1298.4	1294.2	1294.2	1313.2
15°	1359.6	1355.4	1356.4	1353.3	1351.2	1349.0	1348.0	1346.9	1344.8	1344.8	1356.4
17.5°	1409.2	1406.0	1405.0	1401.8	1398.7	1395.5	1393.4	1392.3	1389.2	1389.2	1399.7
20°	1460.9	1457.8	1455.7	1450.4	1445.1	1441.9	1437.7	1435.6	1431.4	1432.4	1444.0
22.5°	1520.1	1514.8	1510.6	1506.3	1496.8	1490.5	1485.2	1481.0	1478.9	1478.9	1494.7
25°	1599.2	1596.1	1589.7	1576.0	1564.4	1554.9	1546.4	1542.2	1538.0	1535.9	1560.2
27.5°	1696.3	1693.2	1684.7	1671.0	1655.2	1639.3	1629.8	1622.4	1617.2	1614.0	1648.8
30°	1825.1	1819.8	1812.4	1790.3	1776.6	1752.3	1741.7	1731.2	1719.6	1722.7	1763.9
32.5°	2077.4	2070.0	2046.8	2022.5	1980.3	1947.6	1913.8	1888.5	1864.2	1861.0	1905.3
35°	2306.5	2303.3	2299.1	2282.2	2266.4	2246.3	2230.5	2204.1	2181.9	2176.6	2301.2
37.5°	2430.0	2437.4	2431.0	2428.9	2428.9	2438.4	2468.0	2497.5	2518.6	2531.3	2601.0
40°	2618.9	2618.9	2611.5	2607.3	2598.9	2611.5	2624.2	2646.4	2655.9	2656.9	2727.6
42.5°	2833.2	2834.3	2826.9	2814.2	2810.0	2821.6	2838.5	2859.6	2872.3	2875.4	2957.8
45°	3071.8	3068.6	3062.3	3058.0	3061.2	3071.8	3091.8	3133.0	3152.0	3166.8	3256.5
47.5°	3330.4	3351.5	3333.6	3336.7	3336.7	3369.4	3414.8	3448.6	3479.2	3507.7	3602.7
50°	3669.2	3672.4	3675.6	3685.1	3691.4	3734.7	3791.7	3831.8	3876.1	3913.1	4068.2
52.5°	4122.1	4115.7	4131.6	4142.1	4178.0	4201.3	4296.3	4346.9	4408.1	4455.6	4682.6
55°	4663.6	4660.4	4683.7	4692.1	4739.6	4796.6	4902.2	5013.0	5117.5	5175.6	5485.9
57.5°	5052.1	5060.5	5100.6	5156.6	5249.5	5370.8	5528.1	5773.0	5971.5	6034.8	6376.8
60°	5137.6	5165.0	5225.2	5337.1	5496.5	5722.4	6031.6	6406.4	6769.5	6890.9	7211.8
62.5°	4897.9	4929.6	5018.3	5152.3	5360.3	5694.9	6141.4	6670.3	7209.7	7479.9	7641.4
63°	4821.9	4861.0	4927.5	5082.7	5293.8	5624.2	6099.2	6669.2	7228.7	7523.2	7649.9
65°	4465.1	4472.5	4571.8	4726.9	4964.4	5307.5	5786.7	6445.4	7066.1	7406.0	7318.4
67.5°	3842.4	3873.0	3956.4	4112.6	4343.8	4700.5	5221.0	5830.0	6375.8	6647.1	6255.4
70°	3104.5	3102.4	3205.8	3331.4	3535.2	3848.7	4304.7	4854.7	5287.5	5484.9	4829.3
72.5°	2217.8	2162.9	2238.9	2378.2	2545.0	2795.2	3156.2	3583.7	3971.1	4142.1	3531.0
75°	1010.2	995.4	1063.0	1201.3	1370.2	1592.9	1889.5	2259.0	2630.5	2831.1	2249.5
77.5°	339.9	344.1	370.5	420.1	510.9	622.8	807.5	1044.0	1344.8	1543.3	1055.6
80°	228.0	234.3	242.8	250.2	260.7	277.6	317.7	379.0	471.8	571.1	333.6
82.5°	186.8	194.2	213.2	221.7	228.0	233.3	236.5	240.7	240.7	242.8	211.1
85°	134.1	146.7	172.1	187.9	194.2	198.5	203.7	210.1	200.6	192.1	163.6
87.5°	46.4	63.3	92.9	102.4	109.8	110.8	118.2	130.9	124.6	101.3	49.6
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	1127.4	1127.4	1127.4	1127.4	1127.4	1127.4	1127.4	1127.4	1127.4
2.5°	1132.6	1131.6	1132.6	1133.7	1133.7	1133.7	1134.8	1135.8	1135.8
5°	1153.8	1154.8	1153.8	1154.8	1154.8	1155.9	1155.9	1158.0	1158.0
7.5°	1189.7	1191.8	1190.7	1192.8	1192.8	1194.9	1193.9	1197.0	1197.0
10°	1238.2	1240.3	1242.4	1243.5	1242.4	1244.5	1246.7	1247.7	1246.7
12.5°	1293.1	1294.2	1293.1	1295.2	1295.2	1297.3	1297.3	1300.5	1300.5
15°	1343.8	1342.7	1341.7	1344.8	1346.9	1348.0	1350.1	1353.3	1350.1
17.5°	1389.2	1390.2	1388.1	1391.3	1395.5	1398.7	1400.8	1405.0	1403.9
20°	1434.5	1432.4	1434.5	1439.8	1444.0	1448.3	1452.5	1458.8	1457.8
22.5°	1478.9	1481.0	1486.3	1490.5	1497.9	1504.2	1509.5	1517.9	1521.1
25°	1541.2	1541.2	1549.6	1554.9	1565.4	1573.9	1585.5	1595.0	1600.3
27.5°	1620.3	1620.3	1629.8	1641.4	1657.3	1672.1	1684.7	1697.4	1695.3
30°	1728.0	1733.3	1741.7	1756.5	1777.6	1795.6	1812.4	1825.1	1826.2
32.5°	1869.5	1875.8	1901.1	1939.1	1983.5	2017.2	2042.6	2073.2	2077.4
35°	2190.4	2206.2	2238.9	2269.5	2287.5	2307.5	2320.2	2321.2	2323.4
37.5°	2528.1	2500.7	2475.4	2452.1	2441.6	2439.5	2439.5	2443.7	2445.8
40°	2651.6	2637.9	2626.3	2611.5	2615.8	2614.7	2622.1	2628.4	2632.6
42.5°	2862.8	2852.2	2841.7	2822.6	2833.2	2830.0	2840.6	2850.1	2855.4
45°	3157.3	3124.5	3101.3	3070.7	3081.3	3074.9	3074.9	3086.5	3088.7
47.5°	3482.4	3444.4	3396.9	3358.9	3346.2	3334.6	3345.2	3345.2	3333.6
50°	3871.9	3826.5	3770.6	3709.3	3688.2	3676.6	3680.8	3686.1	3653.4
52.5°	4400.8	4350.1	4270.9	4178.0	4158.0	4148.5	4146.4	4139.0	4130.5
55°	5117.5	5022.5	4925.4	4802.9	4766.0	4755.4	4756.5	4748.0	4768.1
57.5°	5963.0	5823.7	5599.9	5451.1	5362.4	5328.6	5298.0	5285.3	5286.4
60°	6800.1	6516.2	6181.5	5921.9	5736.1	5617.9	5525.0	5473.2	5458.5
62.5°	7339.5	6893.0	6390.5	5969.4	5664.3	5469.0	5322.3	5229.4	5199.8
63°	7381.7	6908.8	6371.5	5919.8	5598.9	5394.1	5240.0	5143.9	5112.2
65°	7289.9	6749.4	6123.5	5585.1	5233.6	5006.7	4839.9	4749.1	4724.8
67.5°	6576.3	6126.6	5489.1	4932.8	4578.1	4348.0	4156.9	4070.4	4042.9
70°	5349.7	5041.5	4519.0	4044.0	3713.6	3491.9	3298.7	3226.9	3225.9
72.5°	3965.9	3565.8	3254.4	2906.0	2617.9	2441.6	2273.7	2193.5	2153.4
75°	2623.1	2194.6	1846.2	1552.8	1265.7	1107.3	918.4	837.1	789.6
77.5°	1321.6	979.6	702.0	486.6	377.9	310.3	284.0	270.2	269.2
80°	440.2	330.4	284.0	266.0	260.7	261.8	258.6	253.3	247.0
82.5°	243.8	256.5	258.6	251.2	251.2	247.0	242.8	222.7	212.2
85°	209.0	230.1	232.2	228.0	227.0	220.6	213.2	185.8	170.0
87.5°	130.9	150.9	147.8	131.9	145.7	136.2	128.8	83.4	61.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)