

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: P157323

Luminaire Tested: **VST-F02-LED-E-U-5MQ-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157323
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-F02-LED-E-U-5MQ-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4457.5 lumens
Efficiency: N/A
Efficacy: 81.0 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 55
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

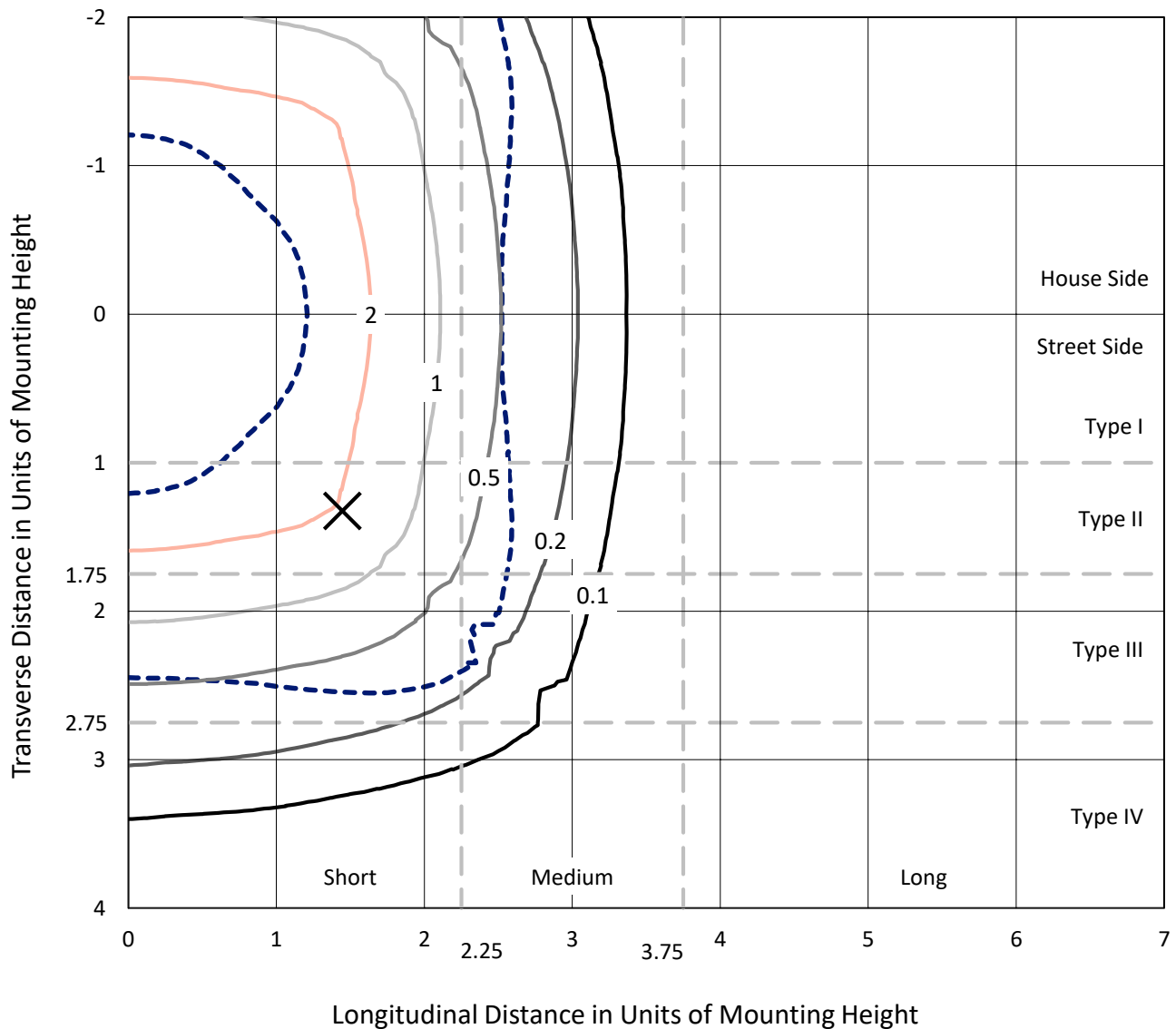


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

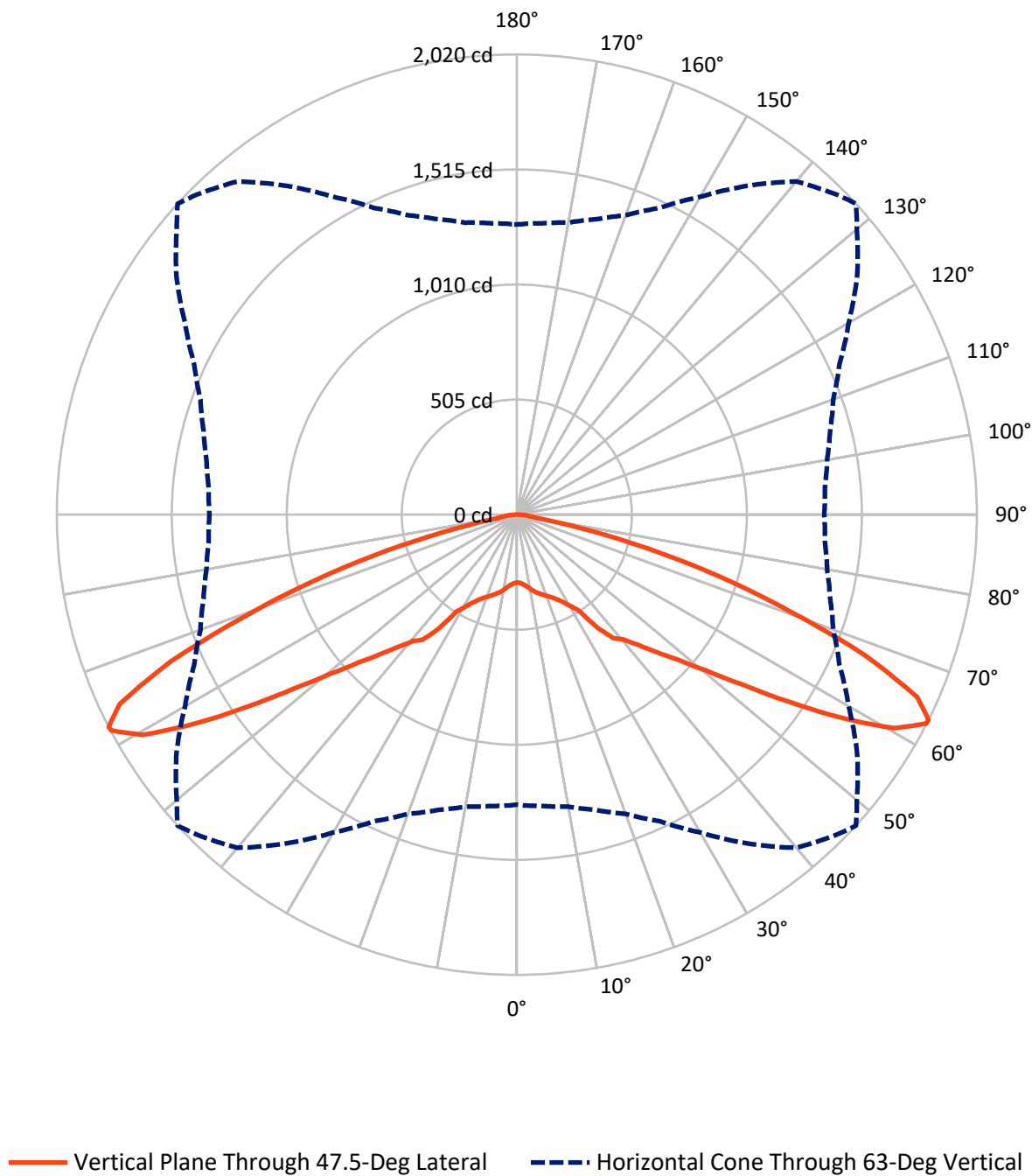


Based on 10 foot mounting height. Maximum calculated value = 3.3 fc
Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2228.8	0.0	2228.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2228.8	0.0	2228.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	4457.5	0.0	4457.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	29.9	0.7
10°-20°	101.6	2.3
20°-30°	194.3	4.4
30°-40°	371.7	8.3
40°-50°	643.1	14.4
50°-60°	1155.0	25.9
60°-70°	1404.5	31.5
70°-80°	507.2	11.4
80°-90°	50.2	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°	4457.5	100.0
0°-180°	4457.5	100.0

Coefficient of Utilization



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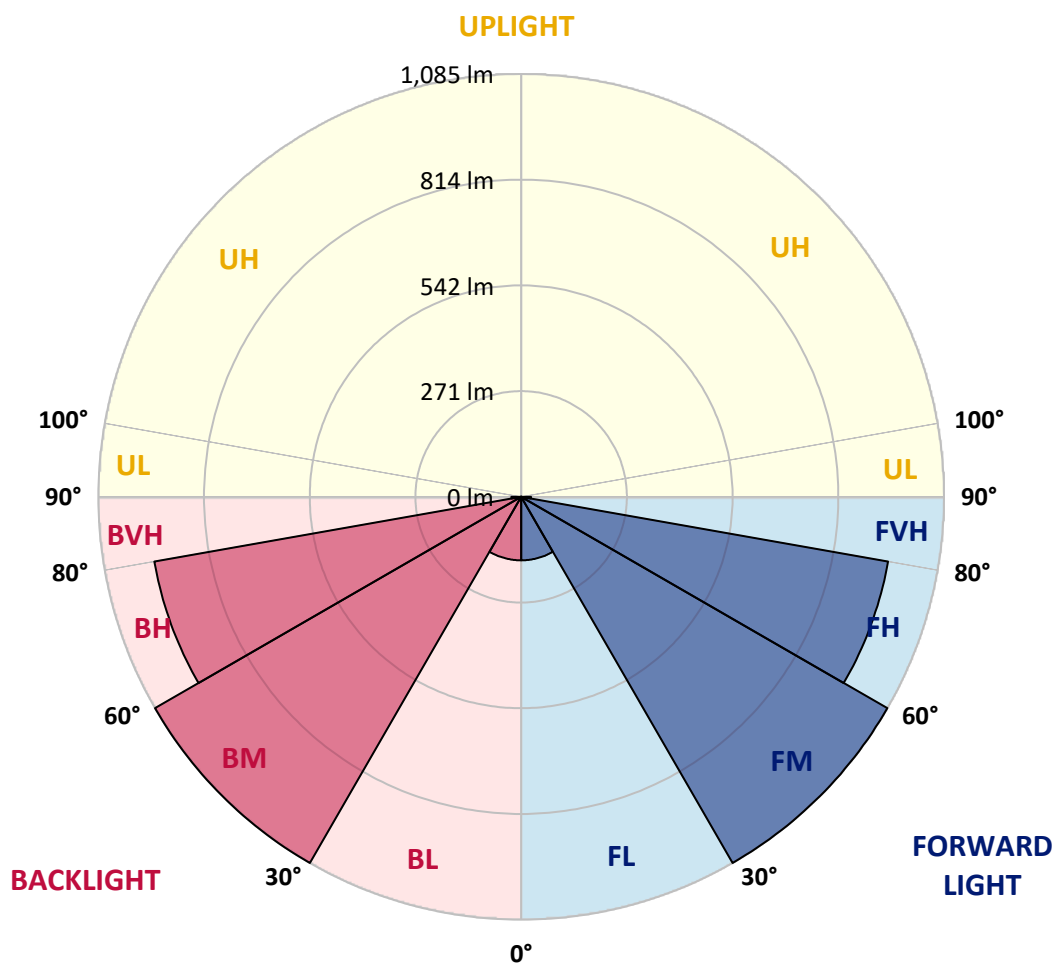
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	162.9	3.7			
FM	(30°-60°)	1084.9	24.3			
FH	(60°-80°)	955.9	21.4			G1/1800
FVH	(80°-90°)	25.1	0.6			G1/100
BL	(0°-30°)	162.9	3.7	B1/500		
BM	(30°-60°)	1084.9	24.3	B2/2500		
BH	(60°-80°)	955.9	21.4	B2/1000		G1/1800
BVH	(80°-90°)	25.1	0.6			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	297.7	297.7	297.7	297.7	297.7	297.7	297.7	297.7	297.7	297.7	297.7
2.5°	299.6	299.0	299.3	299.6	299.3	299.0	299.0	299.0	299.6	299.0	300.4
5°	305.5	304.9	305.2	305.2	305.2	304.6	304.6	304.6	304.3	304.6	307.7
7.5°	316.6	315.8	315.5	316.0	315.5	315.2	314.9	314.9	314.3	314.3	318.2
10°	330.0	328.9	329.4	329.7	328.9	328.3	328.3	328.3	327.5	327.2	332.2
12.5°	344.8	344.2	344.2	343.6	343.4	342.8	342.5	342.8	341.7	341.7	346.7
15°	359.0	357.8	358.1	357.3	356.7	356.2	355.9	355.6	355.1	355.1	358.1
17.5°	372.1	371.2	370.9	370.1	369.2	368.5	367.9	367.6	366.8	366.8	369.5
20°	385.7	384.9	384.3	382.9	381.5	380.7	379.6	379.0	377.9	378.2	381.2
22.5°	401.3	399.9	398.8	397.7	395.2	393.5	392.1	391.0	390.5	390.5	394.6
25°	422.2	421.4	419.7	416.1	413.0	410.5	408.3	407.2	406.1	405.5	411.9
27.5°	447.8	447.0	444.8	441.2	437.0	432.8	430.3	428.3	427.0	426.1	435.3
30°	481.9	480.5	478.5	472.7	469.0	462.7	459.8	457.1	454.0	454.8	465.7
32.5°	548.5	546.5	540.4	534.0	522.8	514.2	505.3	498.6	492.2	491.3	503.0
35°	608.9	608.1	607.0	602.5	598.4	593.0	588.9	581.9	576.1	574.7	607.6
37.5°	641.6	643.5	641.8	641.3	641.3	643.8	651.6	659.4	665.0	668.3	686.7
40°	691.4	691.4	689.5	688.4	686.2	689.5	692.8	698.7	701.2	701.5	720.1
42.5°	748.0	748.3	746.3	743.0	741.9	745.0	749.4	755.0	758.3	759.2	780.9
45°	811.0	810.2	808.5	807.4	808.2	811.0	816.3	827.2	832.2	836.1	859.8
47.5°	879.3	884.9	880.1	881.0	881.0	889.6	901.6	910.5	918.6	926.1	951.2
50°	968.8	969.6	970.4	972.9	974.6	986.0	1001.0	1011.7	1023.4	1033.1	1074.1
52.5°	1088.3	1086.6	1090.8	1093.6	1103.1	1109.2	1134.3	1147.7	1163.8	1176.4	1236.3
55°	1231.3	1230.4	1236.5	1238.8	1251.4	1266.4	1294.3	1323.5	1351.1	1366.4	1448.4
57.5°	1333.9	1336.1	1346.6	1361.4	1385.9	1418.0	1459.5	1524.2	1576.6	1593.3	1683.6
60°	1356.4	1363.7	1379.5	1409.1	1451.2	1510.8	1592.5	1691.4	1787.3	1819.3	1904.0
62.5°	1293.1	1301.5	1324.9	1360.3	1415.2	1503.5	1621.4	1761.1	1903.5	1974.8	2017.4
63°	1273.1	1283.4	1300.9	1341.9	1397.6	1484.9	1610.3	1760.8	1908.5	1986.2	2019.7
65°	1178.9	1180.8	1207.0	1248.0	1310.7	1401.3	1527.8	1701.7	1865.6	1955.3	1932.2
67.5°	1014.4	1022.5	1044.5	1085.8	1146.8	1241.0	1378.4	1539.2	1683.3	1754.9	1651.6
70°	819.7	819.1	846.4	879.5	933.4	1016.1	1136.5	1281.7	1396.0	1448.1	1275.0
72.5°	585.5	571.0	591.1	627.9	671.9	738.0	833.3	946.1	1048.4	1093.6	932.2
75°	266.7	262.8	280.6	317.2	361.7	420.5	498.8	596.4	694.5	747.5	593.9
77.5°	89.8	90.8	97.8	110.9	134.9	164.4	213.2	275.6	355.1	407.5	278.7
80°	60.2	61.9	64.1	66.1	68.8	73.3	83.9	100.1	124.6	150.8	88.1
82.5°	49.3	51.3	56.3	58.5	60.2	61.6	62.4	63.5	63.5	64.1	55.7
85°	35.4	38.8	45.4	49.6	51.3	52.4	53.8	55.4	53.0	50.7	43.2
87.5°	12.2	16.7	24.5	27.1	29.0	29.3	31.2	34.6	32.9	26.8	13.1
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°	297.7	297.7	297.7	297.7	297.7	297.7	297.7	297.7	297.7
2.5°	299.0	298.7	299.0	299.3	299.3	299.3	299.6	299.9	299.9
5°	304.6	304.9	304.6	304.9	304.9	305.2	305.2	305.7	305.7
7.5°	314.1	314.6	314.3	314.9	314.9	315.5	315.2	316.0	316.0
10°	326.9	327.5	328.0	328.3	328.0	328.6	329.2	329.4	329.2
12.5°	341.4	341.7	341.4	341.9	341.9	342.5	342.5	343.4	343.4
15°	354.8	354.5	354.2	355.1	355.6	355.9	356.5	357.3	356.5
17.5°	366.8	367.0	366.5	367.3	368.5	369.2	369.8	370.9	370.7
20°	378.7	378.2	378.7	380.2	381.2	382.4	383.5	385.1	384.9
22.5°	390.5	391.0	392.4	393.5	395.5	397.1	398.5	400.7	401.6
25°	406.9	406.9	409.1	410.5	413.3	415.6	418.6	421.1	422.5
27.5°	427.8	427.8	430.3	433.4	437.5	441.5	444.8	448.1	447.6
30°	456.2	457.6	459.8	463.7	469.3	474.1	478.5	481.9	482.2
32.5°	493.6	495.2	501.9	512.0	523.7	532.6	539.3	547.4	548.5
35°	578.3	582.5	591.1	599.2	604.0	609.2	612.5	612.8	613.4
37.5°	667.5	660.2	653.5	647.4	644.6	644.0	644.0	645.2	645.7
40°	700.1	696.5	693.4	689.5	690.6	690.3	692.3	694.0	695.0
42.5°	755.8	753.1	750.2	745.2	748.0	747.2	749.9	752.5	753.8
45°	833.6	824.9	818.8	810.7	813.5	811.9	811.9	814.9	815.5
47.5°	919.4	909.4	896.8	886.8	883.4	880.4	883.2	883.2	880.1
50°	1022.3	1010.3	995.5	979.3	973.7	970.7	971.8	973.2	964.6
52.5°	1161.9	1148.5	1127.6	1103.1	1097.8	1095.2	1094.7	1092.8	1090.6
55°	1351.1	1326.0	1300.4	1268.0	1258.3	1255.5	1255.8	1253.6	1258.9
57.5°	1574.3	1537.6	1478.5	1439.2	1415.8	1406.8	1398.8	1395.4	1395.7
60°	1795.3	1720.4	1632.1	1563.5	1514.4	1483.2	1458.7	1445.0	1441.1
62.5°	1937.8	1819.9	1687.2	1576.0	1495.5	1443.9	1405.2	1380.7	1372.9
63°	1948.9	1824.1	1682.2	1562.9	1478.2	1424.1	1383.4	1358.1	1349.7
65°	1924.7	1782.0	1616.7	1474.6	1381.7	1321.9	1277.8	1253.8	1247.5
67.5°	1736.3	1617.5	1449.2	1302.4	1208.7	1147.9	1097.5	1074.7	1067.4
70°	1412.4	1331.0	1193.1	1067.7	980.5	921.9	870.9	851.9	851.7
72.5°	1047.1	941.4	859.2	767.2	691.1	644.6	600.3	579.1	568.6
75°	692.6	579.4	487.4	410.0	334.1	292.4	242.5	221.0	208.4
77.5°	348.9	258.6	185.3	128.5	99.8	82.0	74.9	71.3	71.0
80°	116.2	87.2	74.9	70.3	68.8	69.1	68.3	66.9	65.2
82.5°	64.4	67.7	68.3	66.3	66.3	65.2	64.1	58.8	56.0
85°	55.2	60.8	61.3	60.2	59.9	58.3	56.3	49.1	44.9
87.5°	34.6	39.8	39.0	34.9	38.5	35.9	34.0	22.0	16.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)