

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: P147454

Luminaire Tested: **TMU-F02-LED-E-U-5MQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P147454
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: TMU-F02-LED-E-U-5MQ-7030
Description: TALON MEDIUM LED AREA LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (14) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4861.4 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

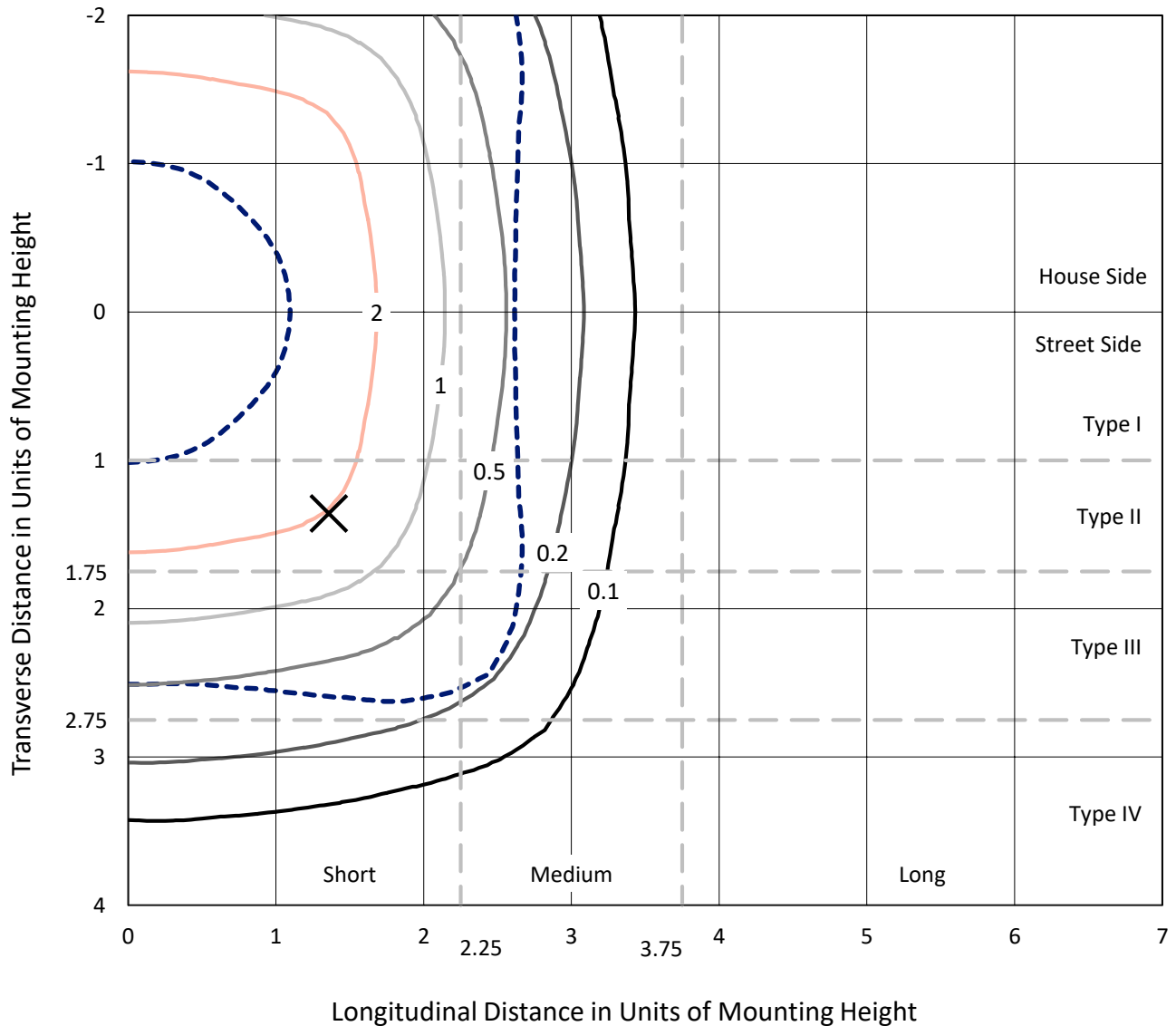
Input Watts (W): 55
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

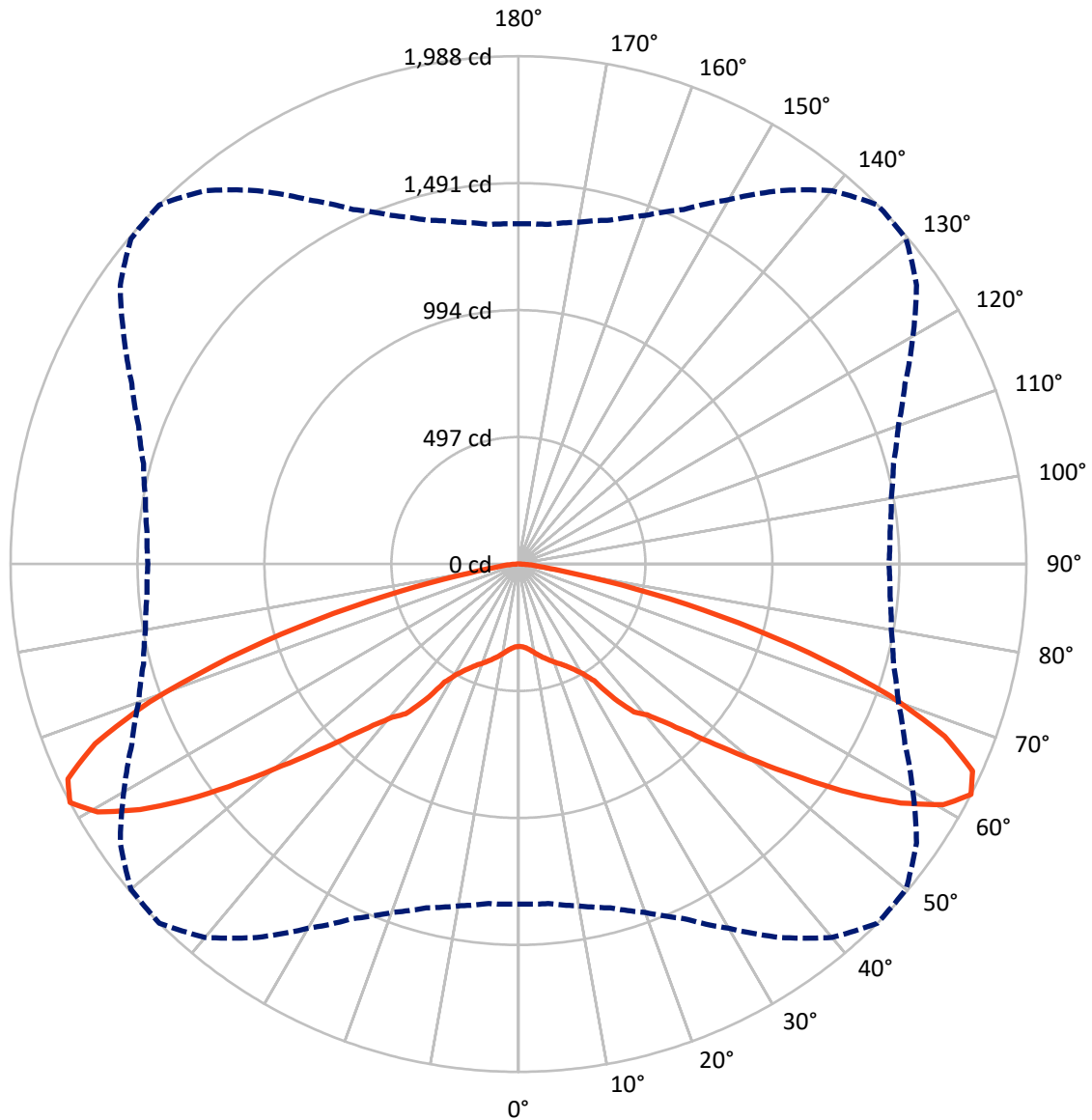
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.7 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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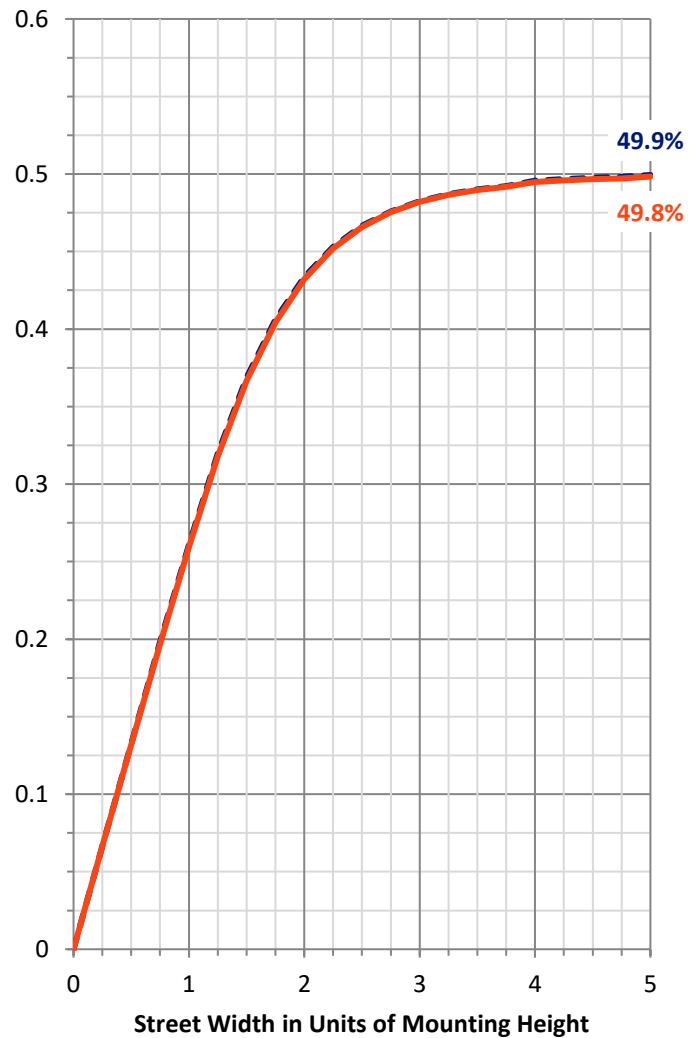
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2430.7	0.0	2430.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2430.7	0.0	2430.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	4861.4	0.0	4861.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.3	0.7
10°-20°	109.3	2.2
20°-30°	211.4	4.3
30°-40°	409.3	8.4
40°-50°	738.9	15.2
50°-60°	1284.9	26.4
60°-70°	1458.7	30.0
70°-80°	565.5	11.6
80°-90°	51.0	1.0
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°	4861.4	100.0
0°-180°	4861.4	100.0



--- HS — SS

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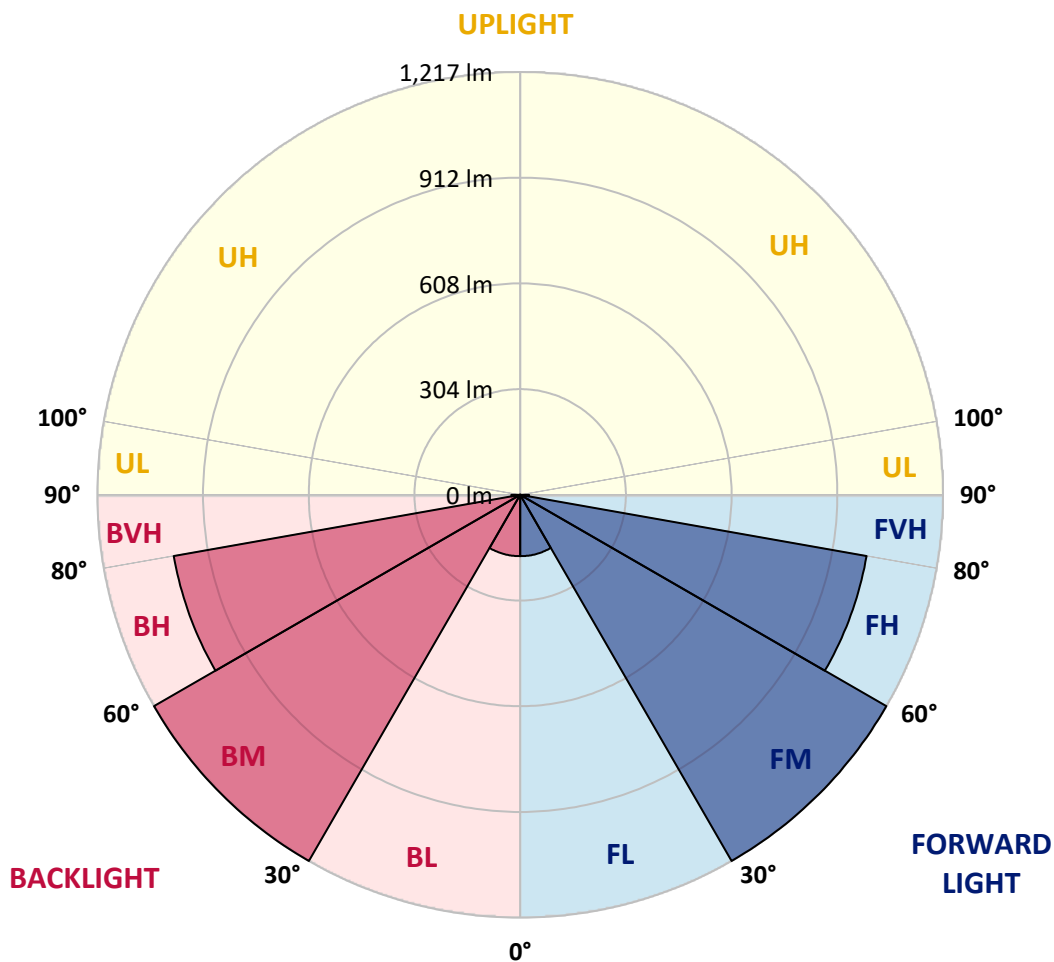
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	176.5	3.6			
FM	(30°-60°)	1216.6	25.0			
FH	(60°-80°)	1012.1	20.8			G1/1800
FVH	(80°-90°)	25.5	0.5			G1/100
BL	(0°-30°)	176.5	3.6	B1/500		
BM	(30°-60°)	1216.6	25.0	B2/2500		
BH	(60°-80°)	1012.1	20.8	B3/2500		G1/1800
BVH	(80°-90°)	25.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7
2.5°	324.8	325.8	325.5	325.0	325.0	325.0	324.8	324.0	323.8	324.2	324.8
5°	332.3	332.3	332.3	332.3	331.8	331.8	331.2	330.8	331.0	330.5	330.2
7.5°	343.8	343.0	343.0	342.8	342.8	342.3	341.5	340.5	340.8	340.5	340.3
10°	357.4	357.6	356.8	357.6	356.4	356.2	355.2	354.6	354.4	353.6	353.6
12.5°	373.7	373.0	373.0	372.5	372.0	371.5	370.0	369.7	368.7	368.2	367.4
15°	389.0	388.8	387.8	386.8	386.6	386.0	384.2	383.2	383.0	381.8	380.8
17.5°	404.4	403.9	402.6	402.2	401.1	400.4	398.8	397.4	396.6	396.1	394.8
20°	420.8	420.2	419.0	418.0	416.7	415.7	413.4	412.2	411.4	410.7	409.7
22.5°	441.1	440.1	438.1	436.4	433.6	432.6	429.6	427.8	426.6	425.5	425.0
25°	463.2	463.4	460.7	458.4	455.2	452.4	448.6	446.6	445.4	444.4	444.1
27.5°	490.8	491.1	488.6	485.3	480.3	477.2	472.2	469.8	469.0	468.0	467.7
30°	534.6	532.3	528.0	522.8	518.2	511.7	504.4	501.9	499.4	498.6	498.6
32.5°	615.0	613.8	610.2	597.2	591.1	577.6	564.8	557.4	549.2	545.1	542.6
35°	671.4	670.8	668.0	663.6	659.7	657.0	649.4	648.2	646.7	646.7	648.6
37.5°	712.8	709.8	709.2	710.0	709.0	709.5	715.6	723.8	730.8	734.4	733.8
40°	774.1	769.8	772.3	770.6	768.3	767.8	769.8	773.1	776.4	776.4	775.6
42.5°	854.2	856.3	857.3	850.0	845.2	844.0	848.7	847.8	851.0	849.8	846.5
45°	973.4	972.2	970.4	961.6	954.0	948.0	949.3	947.5	947.8	945.8	943.2
47.5°	1093.6	1097.8	1090.6	1086.2	1077.7	1073.4	1077.0	1074.0	1079.7	1069.2	1064.2
50°	1210.2	1213.2	1210.6	1204.6	1204.6	1210.6	1214.9	1220.4	1228.5	1216.4	1198.4
52.5°	1305.6	1308.2	1312.0	1317.0	1329.2	1342.2	1360.2	1379.6	1394.9	1392.6	1372.0
55°	1363.9	1366.9	1373.2	1390.6	1412.8	1446.4	1487.4	1532.4	1567.6	1584.6	1569.6
57.5°	1383.6	1385.8	1403.0	1423.8	1458.2	1508.2	1576.8	1654.5	1722.2	1765.1	1758.3
60°	1379.1	1379.1	1396.4	1425.0	1473.3	1539.6	1636.7	1744.2	1847.8	1912.2	1902.6
62.5°	1331.6	1334.1	1359.0	1393.4	1451.6	1531.1	1646.7	1784.2	1908.1	1988.0	1980.2
65°	1227.5	1229.2	1256.2	1297.1	1362.2	1456.2	1582.6	1734.9	1876.9	1953.8	1939.2
67.5°	1059.4	1061.2	1083.0	1129.2	1198.1	1296.4	1432.8	1600.5	1739.5	1800.2	1756.6
70°	842.7	847.8	861.8	910.8	963.1	1059.4	1185.0	1352.6	1483.8	1541.4	1493.2
72.5°	574.3	587.1	604.2	647.7	697.7	777.6	877.6	1018.9	1124.2	1190.8	1147.8
75°	323.5	341.6	346.8	379.8	421.0	484.0	557.2	658.5	764.8	818.8	767.0
77.5°	139.8	154.6	161.1	176.4	208.6	235.0	279.5	347.8	430.0	468.0	405.9
80°	68.9	72.4	75.2	80.0	89.0	97.5	118.6	148.5	182.2	190.8	151.8
82.5°	53.3	55.8	60.6	64.4	66.6	68.8	70.9	74.9	78.2	79.9	75.4
85°	37.4	40.8	46.0	50.2	52.8	54.5	56.3	57.6	54.6	49.8	52.2
87.5°	9.8	12.8	17.8	19.4	21.9	23.2	22.6	23.4	21.1	15.3	17.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	322.7	322.7	322.7	322.7	322.7	322.7	322.7	322.7
2.5°	324.5	324.2	324.4	324.4	324.4	324.2	324.2	324.2
5°	330.2	330.2	330.5	330.0	330.0	330.2	330.0	329.7
7.5°	340.0	339.8	339.8	339.6	339.8	339.6	339.6	339.3
10°	353.2	352.6	352.8	352.1	352.1	351.8	351.9	351.9
12.5°	367.2	366.4	366.7	366.0	364.7	365.0	365.2	364.9
15°	380.8	380.0	379.2	378.8	378.0	378.2	378.2	378.0
17.5°	394.6	393.1	392.8	392.0	391.8	391.8	391.8	392.1
20°	408.9	407.9	407.7	406.9	406.7	407.4	407.7	407.2
22.5°	424.2	423.8	424.2	423.8	424.5	425.0	425.2	424.7
25°	443.6	443.1	443.8	445.6	446.6	447.1	448.4	447.9
27.5°	468.5	468.0	469.8	472.2	473.8	476.3	477.5	478.0
30°	500.6	502.9	504.0	509.0	510.0	514.0	514.0	515.7
32.5°	547.4	551.7	559.2	567.0	577.8	585.6	585.6	589.6
35°	650.0	651.7	657.5	658.8	661.0	663.5	661.0	663.0
37.5°	728.6	720.8	715.3	707.5	702.8	702.7	703.2	702.7
40°	768.8	765.8	763.3	756.8	755.8	755.5	755.5	756.5
42.5°	840.7	833.4	829.4	823.8	822.2	821.6	821.4	821.9
45°	934.2	922.4	911.6	906.0	901.2	896.8	898.2	898.3
47.5°	1043.1	1024.7	1007.1	997.5	989.2	985.4	983.0	982.2
50°	1175.5	1149.8	1127.2	1109.4	1097.3	1097.0	1098.4	1090.3
52.5°	1337.8	1297.4	1269.2	1245.1	1233.8	1232.6	1228.5	1224.0
55°	1517.8	1469.8	1423.3	1397.4	1382.6	1374.5	1369.8	1362.2
57.5°	1703.3	1638.7	1571.8	1530.4	1504.2	1486.1	1476.6	1472.3
60°	1846.3	1758.1	1669.8	1603.2	1559.8	1532.9	1516.3	1509.5
62.5°	1902.6	1783.0	1669.8	1582.4	1519.6	1482.4	1460.0	1450.2
65°	1835.4	1693.7	1565.0	1468.6	1398.4	1356.9	1332.6	1322.0
67.5°	1648.0	1522.8	1382.8	1286.8	1214.6	1173.7	1147.4	1139.5
70°	1381.6	1253.6	1119.9	1034.2	969.8	936.4	909.0	905.8
72.5°	1038.2	927.9	813.3	742.4	690.6	635.4	621.3	628.3
75°	665.6	562.2	460.2	396.4	349.1	296.3	276.0	281.0
77.5°	315.2	244.0	176.2	136.2	114.4	97.8	93.5	91.0
80°	116.8	94.8	83.7	79.4	76.4	73.6	71.6	69.4
82.5°	75.6	73.8	71.6	70.8	68.6	65.1	58.6	55.8
85°	56.6	56.6	53.5	53.8	52.0	47.5	41.4	38.2
87.5°	16.6	14.8	13.6	12.6	12.4	11.1	8.0	7.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)