

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: McGRAW-EDISON

Report Number: P197933

Luminaire Tested: **TT-C5-LED-E1-WQ-SG-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197933
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115543)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C5-LED-E1-WQ-SG-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6327.5 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

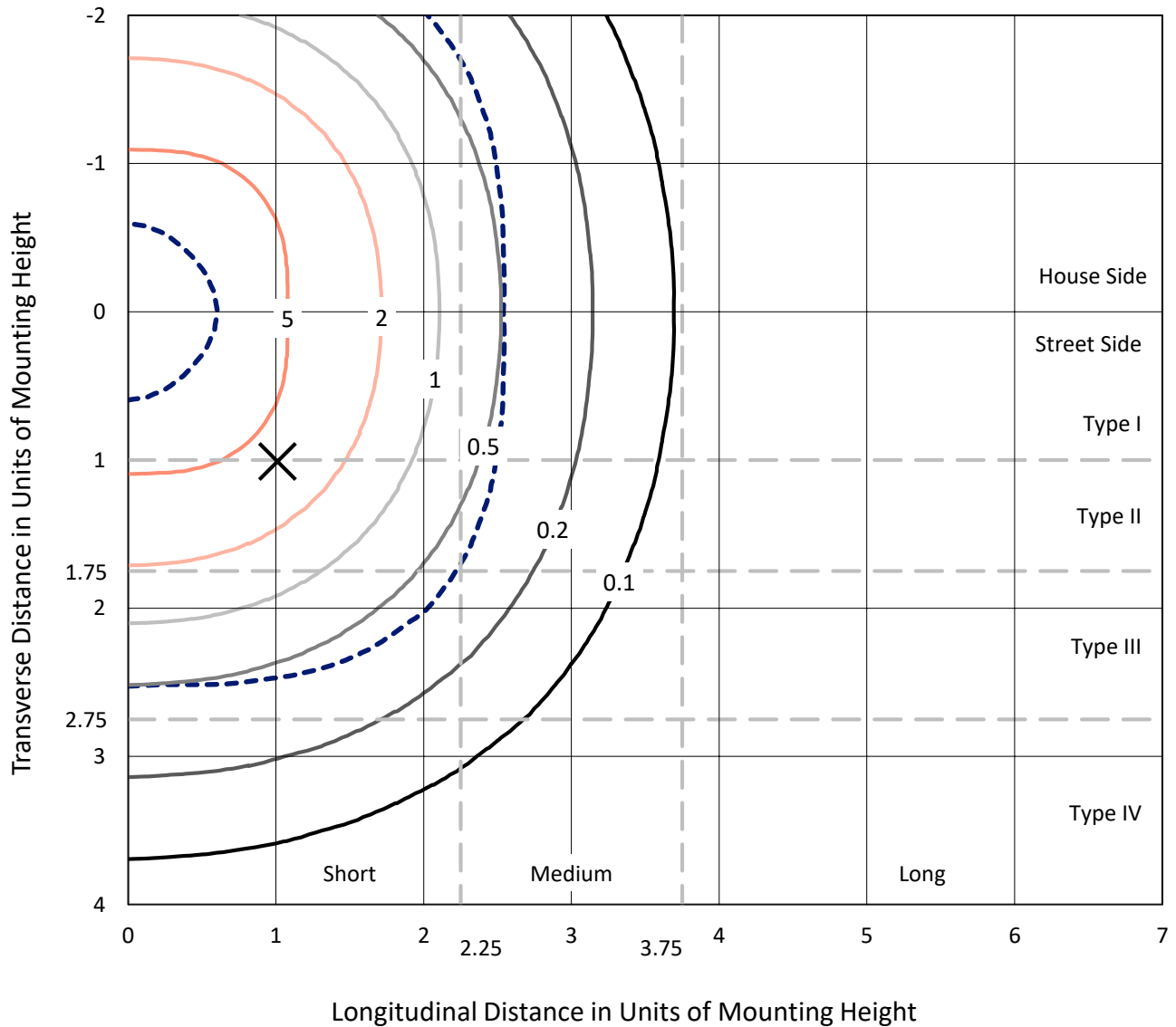
Input Watts (W): 77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

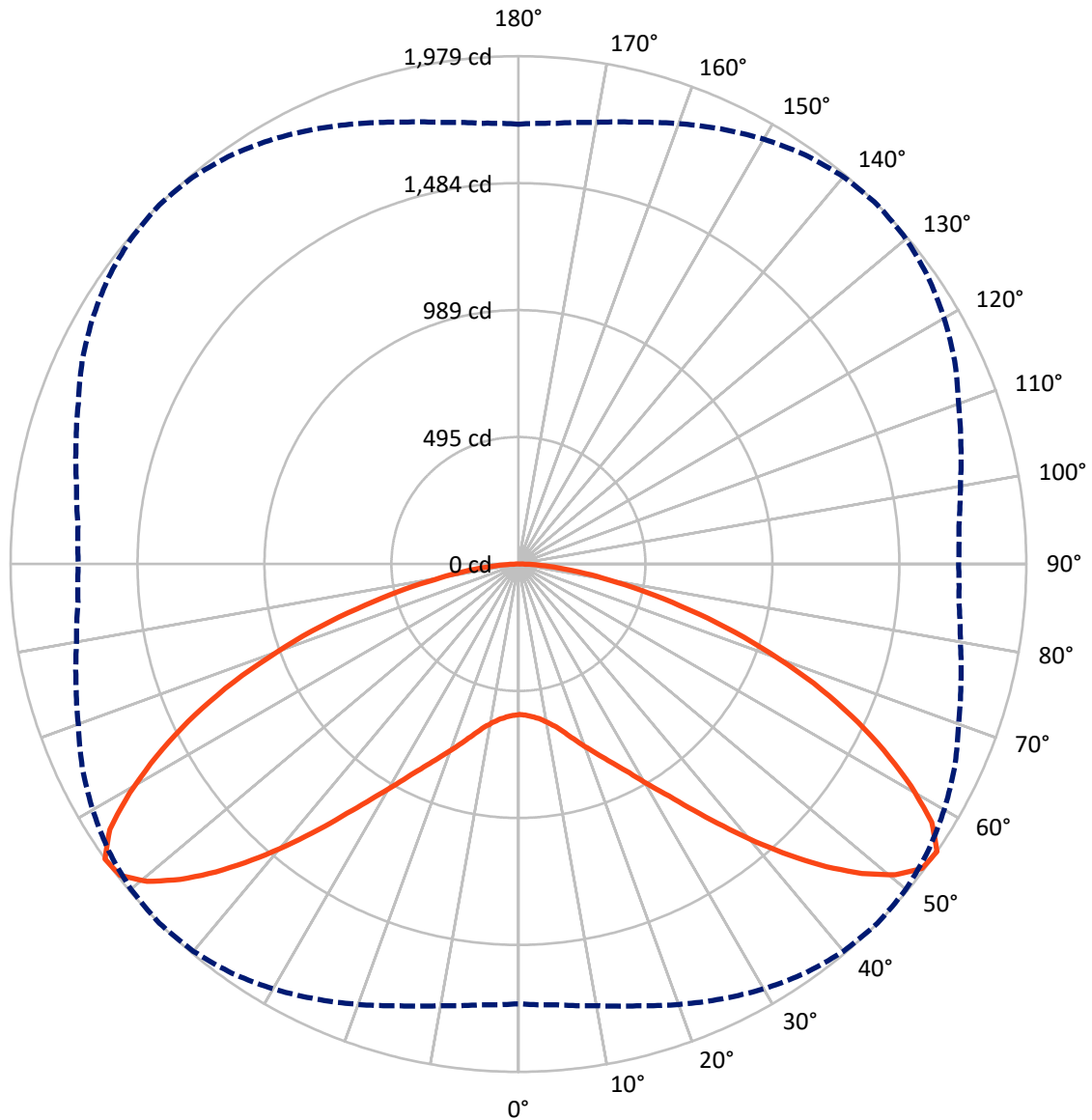
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 6.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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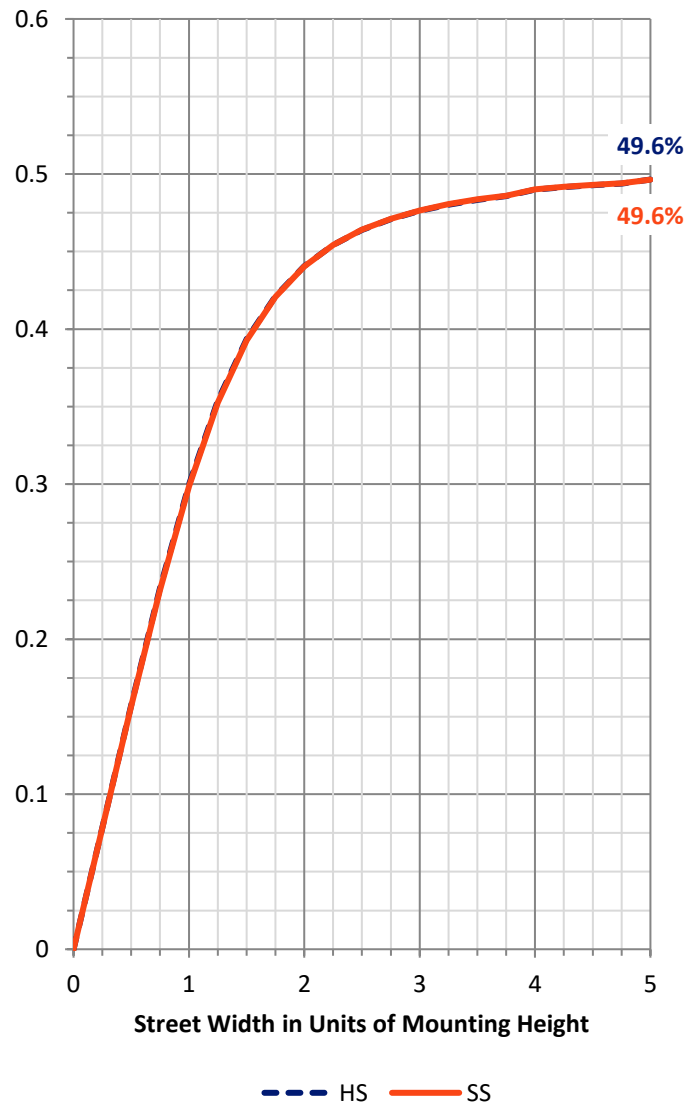
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3163.7	0.0	3163.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3163.7	0.0	3163.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	6327.5	0.0	6327.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.9	0.9
10°-20°	196.4	3.1
20°-30°	400.0	6.3
30°-40°	730.4	11.5
40°-50°	1240.3	19.6
50°-60°	1615.2	25.5
60°-70°	1306.3	20.6
70°-80°	641.9	10.1
80°-90°	138.9	2.2
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°	6327.5	100.0
0°-180°	6327.5	100.0



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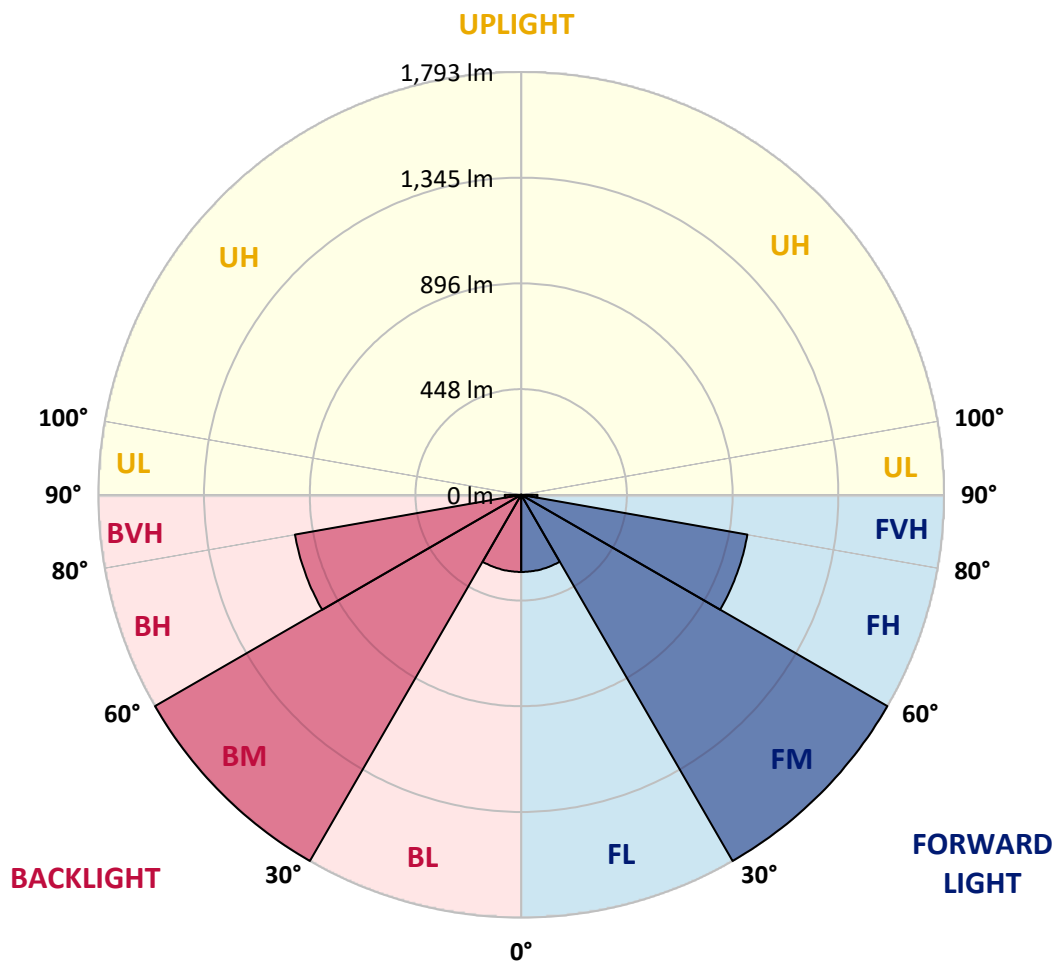
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	327.2	5.2			
FM	(30°-60°)	1793.0	28.3			
FH	(60°-80°)	974.1	15.4			G1/1800
FVH	(80°-90°)	69.5	1.1			G1/100
BL	(0°-30°)	327.2	5.2	B1/500		
BM	(30°-60°)	1793.0	28.3	B2/2500		
BH	(60°-80°)	974.1	15.4	B2/1000		G1/1800
BVH	(80°-90°)	69.5	1.1			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°	50°
0°	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3
2.5°	588.9	588.9	588.9	588.9	588.9	588.9	590.2	590.2	590.2	590.2	590.2
5°	596.7	596.7	596.7	598.0	598.0	598.0	598.0	598.0	598.0	598.0	598.0
7.5°	608.3	607.0	608.3	608.3	608.3	609.6	609.6	608.3	609.6	609.6	609.6
10°	625.1	623.8	625.1	625.1	625.1	626.4	626.4	626.4	626.4	627.7	627.7
12.5°	649.7	648.4	649.7	651.0	649.7	651.0	651.0	651.0	651.0	651.0	651.0
15°	680.8	679.5	680.8	682.1	680.8	683.4	683.4	682.1	682.1	683.4	683.4
17.5°	718.3	715.7	717.0	718.3	718.3	720.9	720.9	719.6	720.9	722.2	720.9
20°	757.1	754.6	755.9	759.7	759.7	761.0	763.6	762.3	763.6	764.9	763.6
22.5°	799.9	798.6	799.9	803.7	803.7	805.0	808.9	808.9	808.9	810.2	808.9
25°	846.4	845.2	846.4	850.3	850.3	852.9	858.1	858.1	859.4	860.7	859.4
27.5°	900.8	899.5	902.1	906.0	907.3	911.2	917.6	918.9	920.2	921.5	918.9
30°	964.2	961.6	965.5	972.0	974.6	979.8	987.5	990.1	991.4	995.3	992.7
32.5°	1036.7	1034.1	1039.3	1047.1	1050.9	1058.7	1069.1	1071.7	1075.5	1078.1	1074.2
35°	1122.1	1120.8	1126.0	1137.7	1144.1	1153.2	1167.4	1171.3	1173.9	1179.1	1173.9
37.5°	1216.6	1215.3	1224.4	1237.3	1249.0	1263.2	1278.7	1285.2	1289.1	1295.6	1289.1
40°	1321.4	1320.2	1331.8	1347.3	1361.6	1379.7	1399.1	1408.2	1415.9	1422.4	1414.6
42.5°	1428.9	1428.9	1443.1	1459.9	1480.6	1502.6	1524.6	1535.0	1547.9	1551.8	1542.8
45°	1532.4	1533.7	1547.9	1568.6	1598.4	1626.9	1651.5	1664.4	1678.7	1682.5	1670.9
47.5°	1630.8	1632.1	1645.0	1672.2	1705.8	1738.2	1768.0	1786.1	1800.3	1801.6	1792.6
50°	1711.0	1716.2	1733.0	1757.6	1792.6	1826.2	1862.4	1885.7	1900.0	1903.9	1894.8
52.5°	1742.1	1751.1	1770.6	1801.6	1841.7	1876.7	1916.8	1946.6	1963.4	1969.9	1962.1
55°	1713.6	1724.0	1747.3	1782.2	1826.2	1870.2	1911.6	1946.6	1969.9	1978.9	1971.2
57.5°	1650.2	1651.5	1674.8	1709.7	1749.8	1795.1	1835.3	1867.6	1889.6	1898.7	1897.4
60°	1540.2	1540.2	1562.2	1595.8	1626.9	1673.5	1707.1	1731.7	1747.3	1757.6	1755.0
62.5°	1392.6	1392.6	1412.0	1447.0	1478.1	1518.2	1550.5	1576.4	1586.8	1598.4	1601.0
65°	1228.3	1228.3	1246.4	1281.3	1309.8	1346.0	1377.1	1401.7	1412.0	1426.3	1423.7
67.5°	1053.5	1052.2	1069.1	1098.8	1126.0	1159.7	1189.4	1212.7	1224.4	1241.2	1229.6
70°	873.6	873.6	887.9	911.2	930.6	964.2	992.7	1016.0	1025.1	1039.3	1032.8
72.5°	702.8	701.5	713.1	731.3	746.8	776.6	793.4	819.3	827.0	846.4	836.1
75°	548.8	546.2	555.2	568.2	578.5	598.0	610.9	631.6	638.1	651.0	645.8
77.5°	412.9	411.6	415.5	424.5	432.3	447.8	453.0	463.3	468.5	481.5	471.1
80°	296.4	292.5	296.4	301.6	304.2	315.8	317.1	321.0	323.6	332.6	322.3
82.5°	199.3	194.1	196.7	200.6	200.6	207.1	208.4	207.1	212.3	214.8	209.7
85°	113.9	110.0	111.3	113.9	112.6	116.5	116.5	115.2	119.1	119.1	116.5
87.5°	37.5	34.9	36.2	37.5	37.5	38.8	40.1	38.8	41.4	41.4	38.8
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°	586.3	586.3	586.3	586.3	586.3	586.3	586.3	586.3
2.5°	590.2	590.2	590.2	590.2	590.2	590.2	590.2	590.2
5°	598.0	598.0	598.0	598.0	598.0	596.7	596.7	596.7
7.5°	609.6	609.6	609.6	609.6	609.6	608.3	608.3	608.3
10°	627.7	626.4	626.4	626.4	626.4	625.1	626.4	625.1
12.5°	651.0	652.3	652.3	651.0	652.3	649.7	649.7	649.7
15°	683.4	682.1	682.1	682.1	682.1	680.8	680.8	680.8
17.5°	719.6	719.6	718.3	718.3	717.0	715.7	715.7	715.7
20°	762.3	761.0	759.7	758.4	757.1	754.6	753.3	753.3
22.5°	806.3	805.0	803.7	802.4	801.2	798.6	796.0	796.0
25°	855.5	852.9	851.6	849.0	846.4	843.9	842.6	841.3
27.5°	915.0	912.5	908.6	904.7	899.5	898.2	895.6	895.6
30°	986.2	982.3	977.2	970.7	965.5	960.3	957.8	956.5
32.5°	1069.1	1063.9	1054.8	1047.1	1038.0	1032.8	1028.9	1026.4
35°	1166.1	1158.4	1148.0	1136.4	1124.7	1115.7	1109.2	1109.2
37.5°	1280.0	1268.4	1252.8	1238.6	1221.8	1211.4	1203.7	1198.5
40°	1404.3	1387.5	1368.0	1349.9	1330.5	1316.3	1304.6	1305.9
42.5°	1527.2	1513.0	1489.7	1467.7	1443.1	1423.7	1409.5	1408.2
45°	1656.7	1638.5	1610.1	1581.6	1553.1	1529.8	1513.0	1510.4
47.5°	1777.0	1757.6	1724.0	1689.0	1658.0	1632.1	1613.9	1611.4
50°	1875.4	1852.1	1817.1	1779.6	1746.0	1717.5	1698.1	1692.9
52.5°	1938.8	1912.9	1875.4	1830.1	1793.9	1761.5	1738.2	1731.7
55°	1949.2	1915.5	1875.4	1824.9	1784.8	1748.6	1722.7	1714.9
57.5°	1878.0	1841.7	1805.5	1761.5	1721.4	1682.5	1661.8	1651.5
60°	1739.5	1711.0	1681.3	1641.1	1608.8	1572.5	1555.7	1550.5
62.5°	1580.3	1555.7	1528.5	1487.1	1459.9	1427.6	1412.0	1405.6
65°	1409.5	1381.0	1355.1	1321.4	1291.7	1264.5	1242.5	1239.9
67.5°	1220.5	1190.7	1168.7	1139.0	1109.2	1083.3	1069.1	1061.3
70°	1021.2	996.6	974.6	942.2	922.8	898.2	887.9	880.1
72.5°	823.2	808.9	781.7	761.0	739.0	719.6	713.1	705.4
75°	636.8	620.0	599.2	586.3	569.5	559.1	553.9	548.8
77.5°	467.2	453.0	441.3	436.2	428.4	418.0	414.2	410.3
80°	323.6	317.1	309.3	308.0	302.9	295.1	293.8	292.5
82.5°	209.7	205.8	203.2	203.2	200.6	195.4	194.1	194.1
85°	116.5	115.2	116.5	115.2	112.6	110.0	110.0	110.0
87.5°	38.8	38.8	40.1	41.4	37.5	37.5	36.2	36.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)