

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: P197931

Luminaire Tested: **TT-C4-LED-E1-WQ-SG-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197931
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-C4-LED-E1-WQ-SG-7050
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (160) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6414.6 lumens
Efficiency: N/A
Efficacy: 110.6 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): 58
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

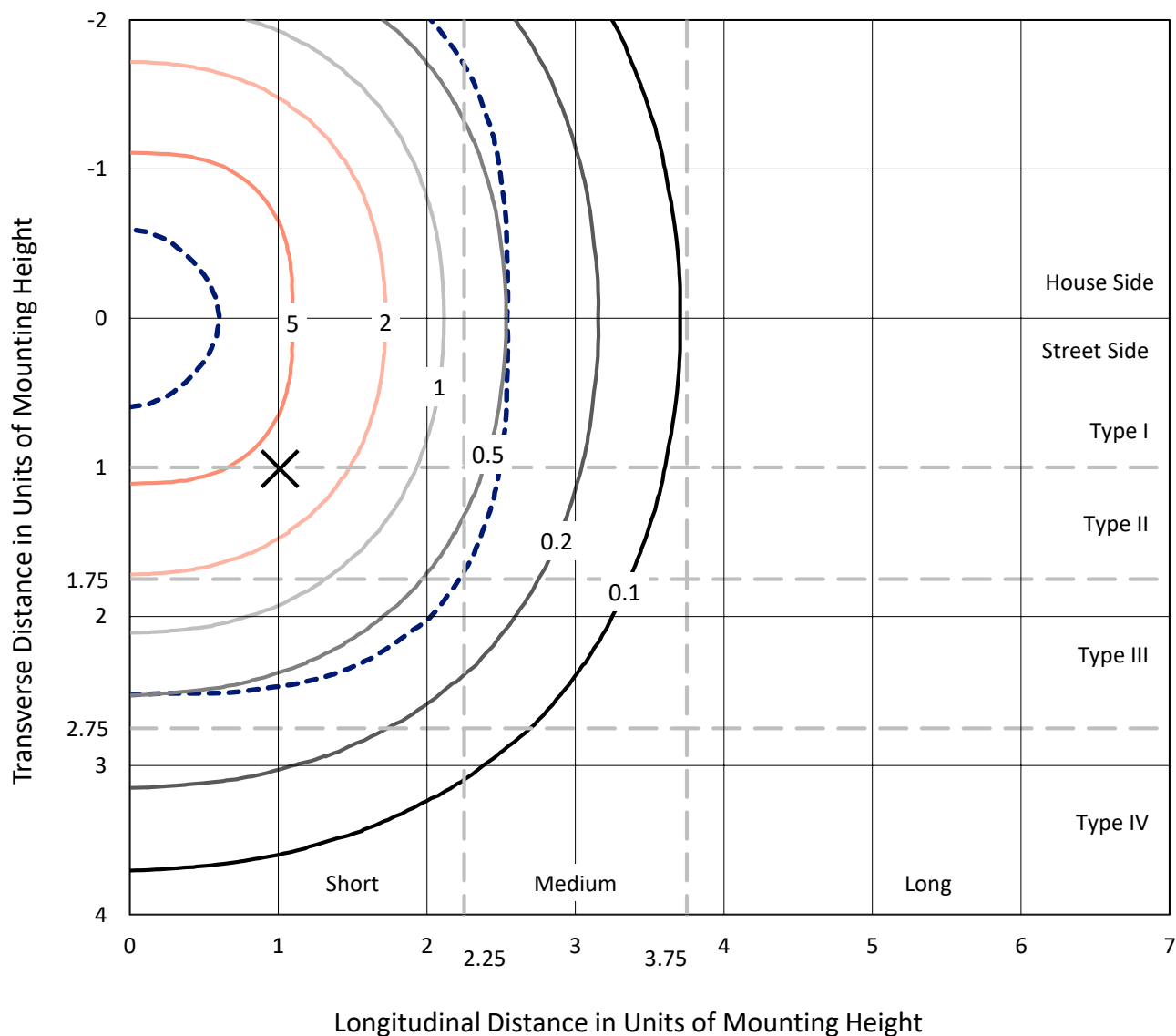


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

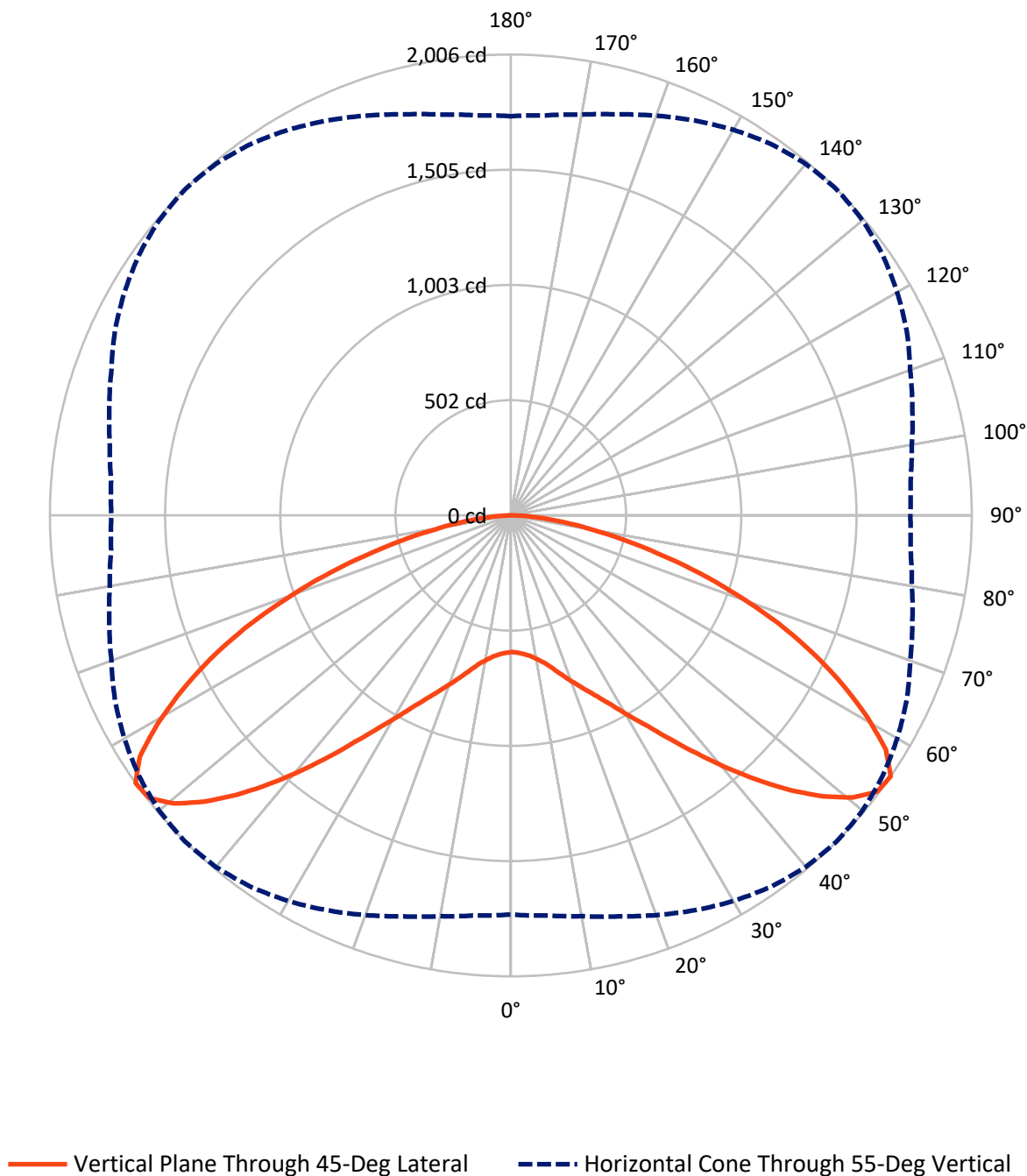


Based on 10 foot mounting height. Maximum calculated value = 6.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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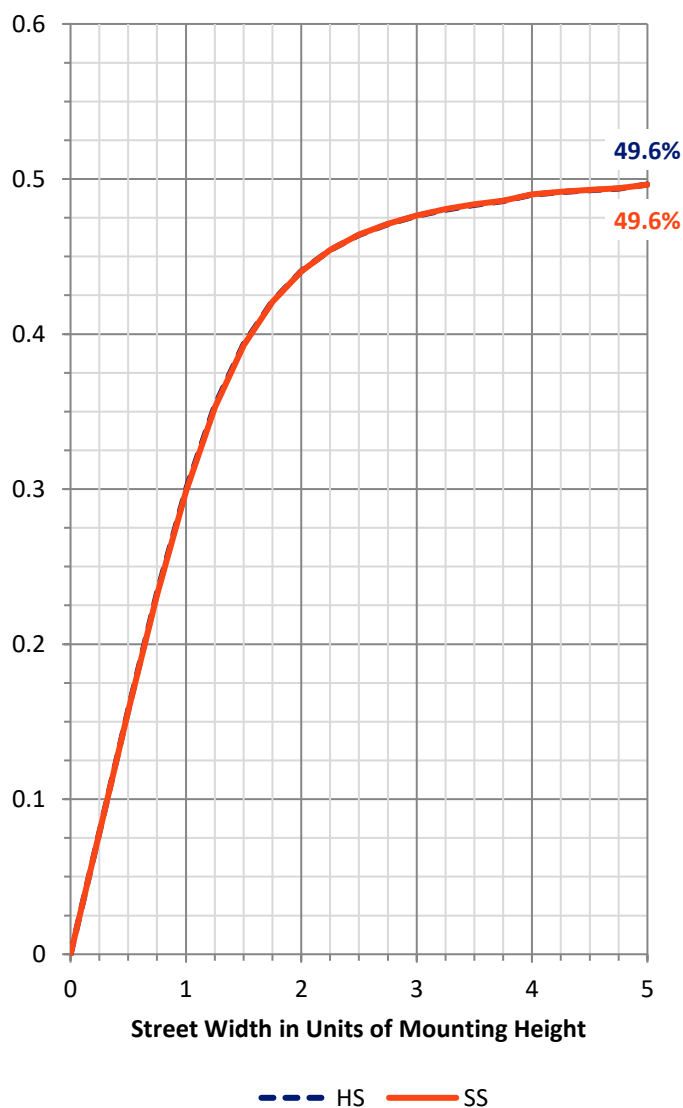
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3207.3	0.0	3207.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3207.3	0.0	3207.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	6414.6	0.0	6414.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.7	0.9
10°-20°	199.1	3.1
20°-30°	405.5	6.3
30°-40°	740.5	11.5
40°-50°	1257.3	19.6
50°-60°	1637.5	25.5
60°-70°	1324.3	20.6
70°-80°	650.8	10.1
80°-90°	140.9	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°	6414.6	100.0
0°-180°	6414.6	100.0

Coefficient of Utilization



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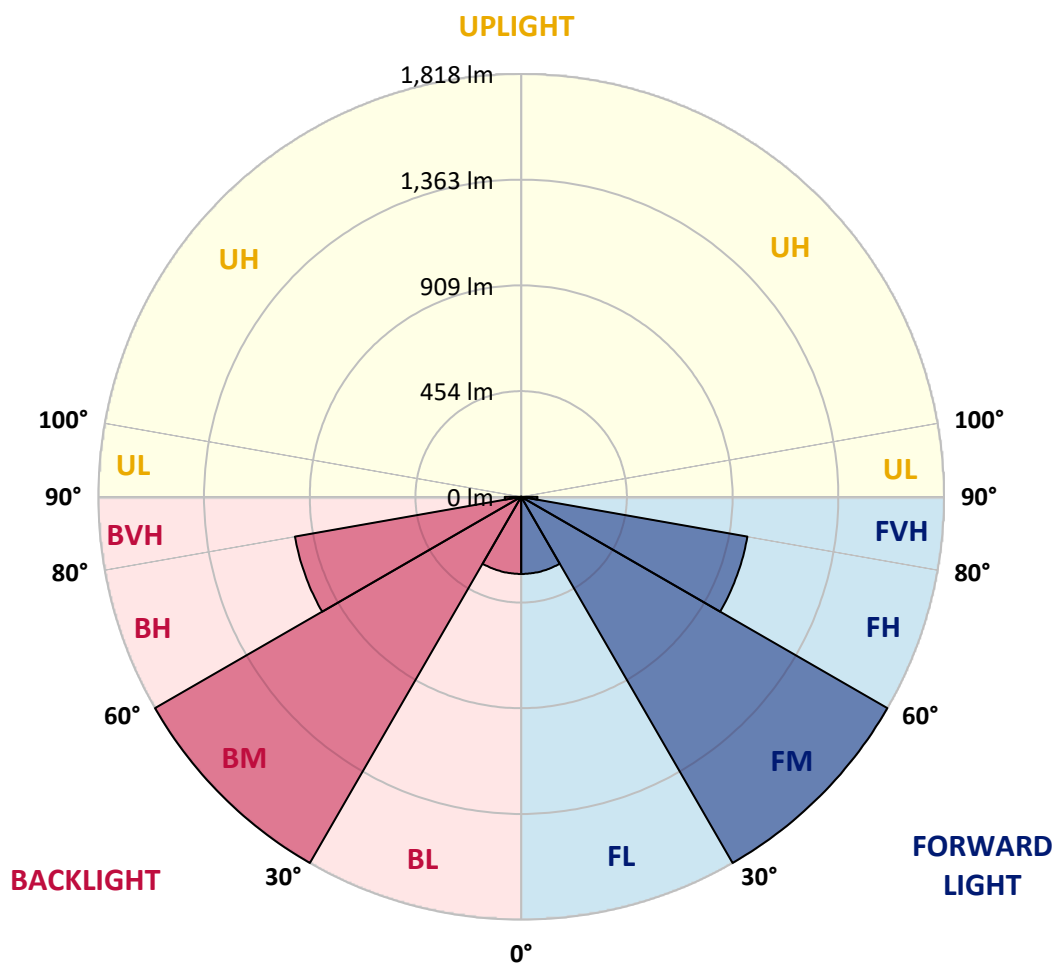
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	331.7	5.2			
FM	(30°-60°)	1817.6	28.3			
FH	(60°-80°)	987.5	15.4			G1/1800
FVH	(80°-90°)	70.4	1.1			G1/100
BL	(0°-30°)	331.7	5.2	B1/500		
BM	(30°-60°)	1817.6	28.3	B2/2500		
BH	(60°-80°)	987.5	15.4	B2/1000		G1/1800
BVH	(80°-90°)	70.4	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°	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4
2.5°	597.0	597.0	597.0	597.0	597.0	597.0	598.3	598.3	598.3	598.3	598.3
5°	604.9	604.9	604.9	606.2	606.2	606.2	606.2	606.2	606.2	606.2	606.2
7.5°	616.7	615.4	616.7	616.7	616.7	618.0	618.0	616.7	618.0	618.0	618.0
10°	633.7	632.4	633.7	633.7	633.7	635.0	635.0	635.0	635.0	635.0	636.4
12.5°	658.7	657.3	658.7	660.0	658.7	660.0	660.0	660.0	660.0	660.0	660.0
15°	690.1	688.8	690.1	691.5	690.1	692.8	692.8	691.5	691.5	692.8	692.8
17.5°	728.2	725.6	726.9	728.2	728.2	730.8	730.8	729.5	730.8	732.1	730.8
20°	767.6	764.9	766.2	770.2	770.2	771.5	774.1	772.8	774.1	775.4	774.1
22.5°	810.9	809.5	810.9	814.8	814.8	816.1	820.0	820.0	820.0	821.4	820.0
25°	858.1	856.8	858.1	862.0	862.0	864.7	869.9	869.9	871.2	872.5	871.2
27.5°	913.2	911.9	914.5	918.5	919.8	923.7	930.3	931.6	932.9	934.2	931.6
30°	977.5	974.9	978.8	985.4	988.0	993.2	1001.1	1003.7	1005.0	1009.0	1006.4
32.5°	1051.0	1048.3	1053.6	1061.5	1065.4	1073.3	1083.8	1086.4	1090.3	1093.0	1089.0
35°	1137.6	1136.3	1141.5	1153.3	1159.9	1169.1	1183.5	1187.4	1190.0	1195.3	1190.0
37.5°	1233.3	1232.0	1241.2	1254.3	1266.1	1280.6	1296.3	1302.9	1306.8	1313.4	1306.8
40°	1339.6	1338.3	1350.1	1365.9	1380.3	1398.7	1418.3	1427.5	1435.4	1442.0	1434.1
42.5°	1448.5	1448.5	1463.0	1480.0	1501.0	1523.3	1545.6	1556.1	1569.2	1573.2	1564.0
45°	1553.5	1554.8	1569.2	1590.2	1620.4	1649.3	1674.2	1687.3	1701.8	1705.7	1693.9
47.5°	1653.2	1654.5	1667.6	1695.2	1729.3	1762.1	1792.3	1810.7	1825.1	1826.4	1817.2
50°	1734.6	1739.8	1756.9	1781.8	1817.2	1851.3	1888.1	1911.7	1926.1	1930.1	1920.9
52.5°	1766.0	1775.2	1794.9	1826.4	1867.1	1902.5	1943.2	1973.4	1990.4	1997.0	1989.1
55°	1737.2	1747.7	1771.3	1806.7	1851.3	1895.9	1937.9	1973.4	1997.0	2006.2	1998.3
57.5°	1672.9	1674.2	1697.8	1733.2	1773.9	1819.8	1860.5	1893.3	1915.6	1924.8	1923.5
60°	1561.4	1561.4	1583.7	1617.8	1649.3	1696.5	1730.6	1755.6	1771.3	1781.8	1779.2
62.5°	1411.8	1411.8	1431.5	1466.9	1498.4	1539.1	1571.9	1598.1	1608.6	1620.4	1623.0
65°	1245.2	1245.2	1263.5	1299.0	1327.8	1364.6	1396.0	1421.0	1431.5	1445.9	1443.3
67.5°	1068.0	1066.7	1083.8	1113.9	1141.5	1175.6	1205.8	1229.4	1241.2	1258.3	1246.5
70°	885.6	885.6	900.1	923.7	943.4	977.5	1006.4	1030.0	1039.2	1053.6	1047.0
72.5°	712.5	711.1	723.0	741.3	757.1	787.2	804.3	830.5	838.4	858.1	847.6
75°	556.3	553.7	562.9	576.0	586.5	606.2	619.3	640.3	646.9	660.0	654.7
77.5°	418.6	417.2	421.2	430.4	438.2	454.0	459.2	469.7	475.0	488.1	477.6
80°	300.5	296.5	300.5	305.7	308.3	320.1	321.5	325.4	328.0	337.2	326.7
82.5°	202.1	196.8	199.4	203.4	203.4	209.9	211.2	209.9	215.2	217.8	212.6
85°	115.5	111.5	112.8	115.5	114.2	118.1	118.1	116.8	120.7	120.7	118.1
87.5°	38.1	35.4	36.7	38.1	38.1	39.4	40.7	39.4	42.0	42.0	39.4
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°	594.4	594.4	594.4	594.4	594.4	594.4	594.4	594.4
2.5°	598.3	598.3	598.3	598.3	598.3	598.3	598.3	598.3
5°	606.2	606.2	606.2	606.2	606.2	604.9	604.9	604.9
7.5°	618.0	618.0	618.0	618.0	618.0	616.7	616.7	616.7
10°	636.4	635.0	635.0	635.0	635.0	633.7	635.0	633.7
12.5°	660.0	661.3	661.3	660.0	661.3	658.7	658.7	658.7
15°	692.8	691.5	691.5	691.5	691.5	690.1	690.1	690.1
17.5°	729.5	729.5	728.2	728.2	726.9	725.6	725.6	725.6
20°	772.8	771.5	770.2	768.9	767.6	764.9	763.6	763.6
22.5°	817.4	816.1	814.8	813.5	812.2	809.5	806.9	806.9
25°	867.3	864.7	863.3	860.7	858.1	855.5	854.2	852.8
27.5°	927.6	925.0	921.1	917.1	911.9	910.6	908.0	908.0
30°	999.8	995.9	990.6	984.1	978.8	973.6	970.9	969.6
32.5°	1083.8	1078.5	1069.3	1061.5	1052.3	1047.0	1043.1	1040.5
35°	1182.2	1174.3	1163.8	1152.0	1140.2	1131.0	1124.4	1124.4
37.5°	1297.6	1285.8	1270.1	1255.7	1238.6	1228.1	1220.2	1215.0
40°	1423.6	1406.5	1386.9	1368.5	1348.8	1334.4	1322.6	1323.9
42.5°	1548.2	1533.8	1510.2	1487.9	1463.0	1443.3	1428.8	1427.5
45°	1679.5	1661.1	1632.2	1603.4	1574.5	1550.9	1533.8	1531.2
47.5°	1801.5	1781.8	1747.7	1712.3	1680.8	1654.5	1636.2	1633.5
50°	1901.2	1877.6	1842.1	1804.1	1770.0	1741.1	1721.4	1716.2
52.5°	1965.5	1939.2	1901.2	1855.3	1818.5	1785.7	1762.1	1755.6
55°	1976.0	1941.9	1901.2	1850.0	1809.3	1772.6	1746.4	1738.5
57.5°	1903.8	1867.1	1830.3	1785.7	1745.1	1705.7	1684.7	1674.2
60°	1763.4	1734.6	1704.4	1663.7	1630.9	1594.2	1577.1	1571.9
62.5°	1602.0	1577.1	1549.6	1507.6	1480.0	1447.2	1431.5	1424.9
65°	1428.8	1400.0	1373.7	1339.6	1309.4	1281.9	1259.6	1257.0
67.5°	1237.3	1207.1	1184.8	1154.6	1124.4	1098.2	1083.8	1075.9
70°	1035.2	1010.3	988.0	955.2	935.5	910.6	900.1	892.2
72.5°	834.5	820.0	792.5	771.5	749.2	729.5	723.0	715.1
75°	645.5	628.5	607.5	594.4	577.3	566.8	561.6	556.3
77.5°	473.7	459.2	447.4	442.2	434.3	423.8	419.9	415.9
80°	328.0	321.5	313.6	312.3	307.0	299.2	297.8	296.5
82.5°	212.6	208.6	206.0	206.0	203.4	198.1	196.8	196.8
85°	118.1	116.8	118.1	116.8	114.2	111.5	111.5	111.5
87.5°	39.4	39.4	40.7	42.0	38.1	38.1	36.7	36.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)