

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: P197935

Luminaire Tested: **TT-C5-LED-E1-WQ-SG-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197935
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-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: 8310.6 lumens
Efficiency: N/A
Efficacy: 107.9 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

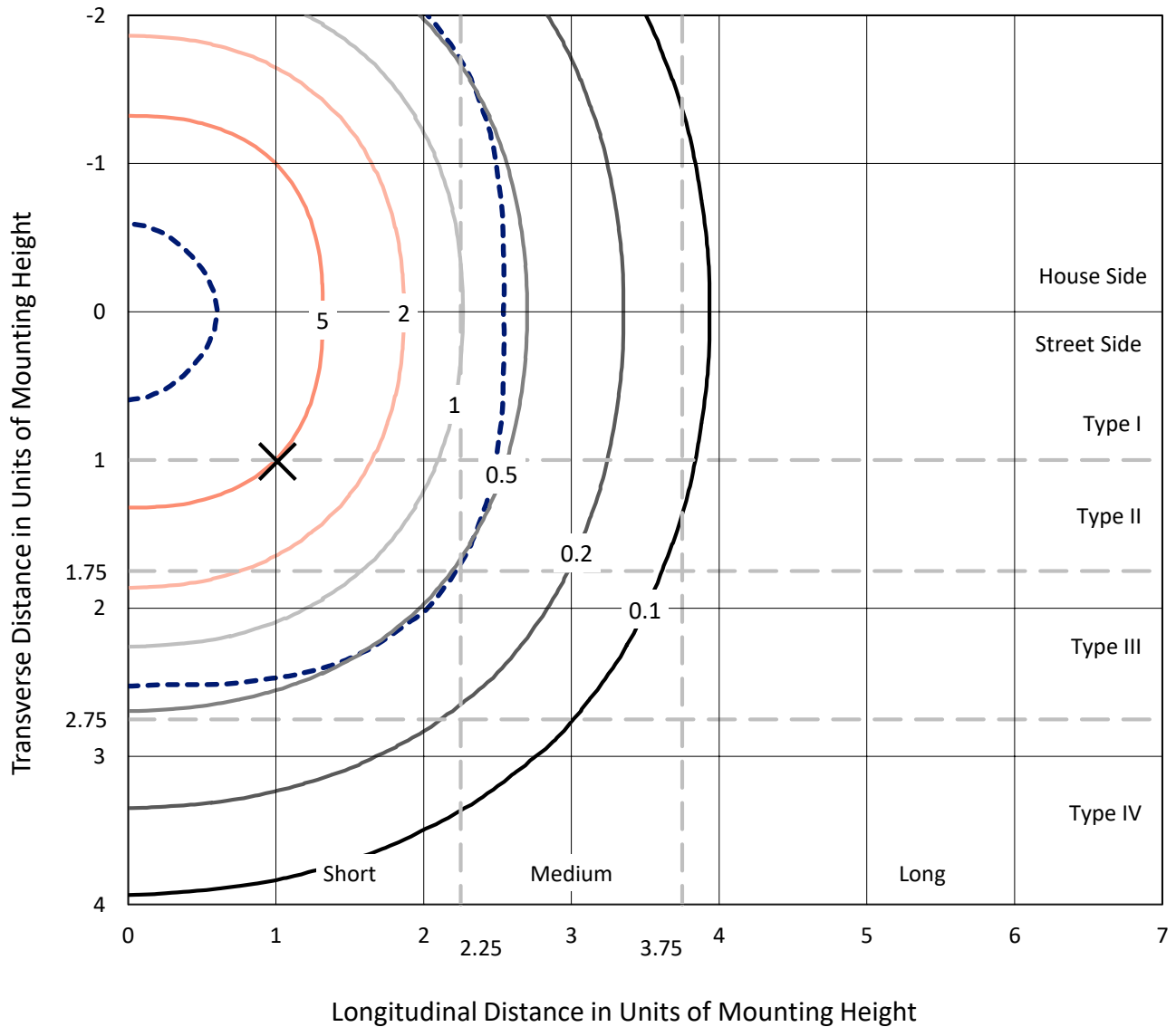
Input Watts (W): 77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

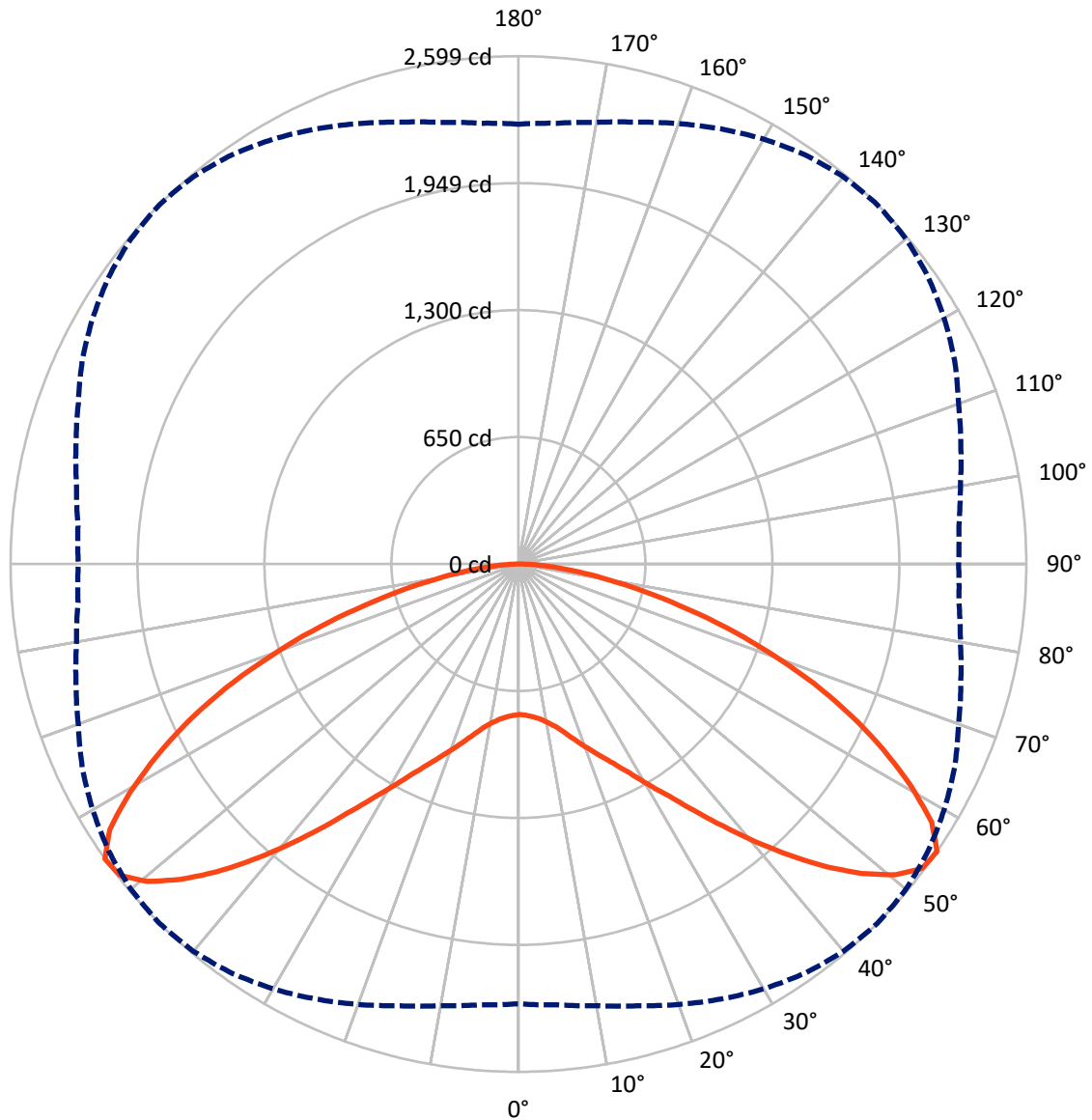
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.5 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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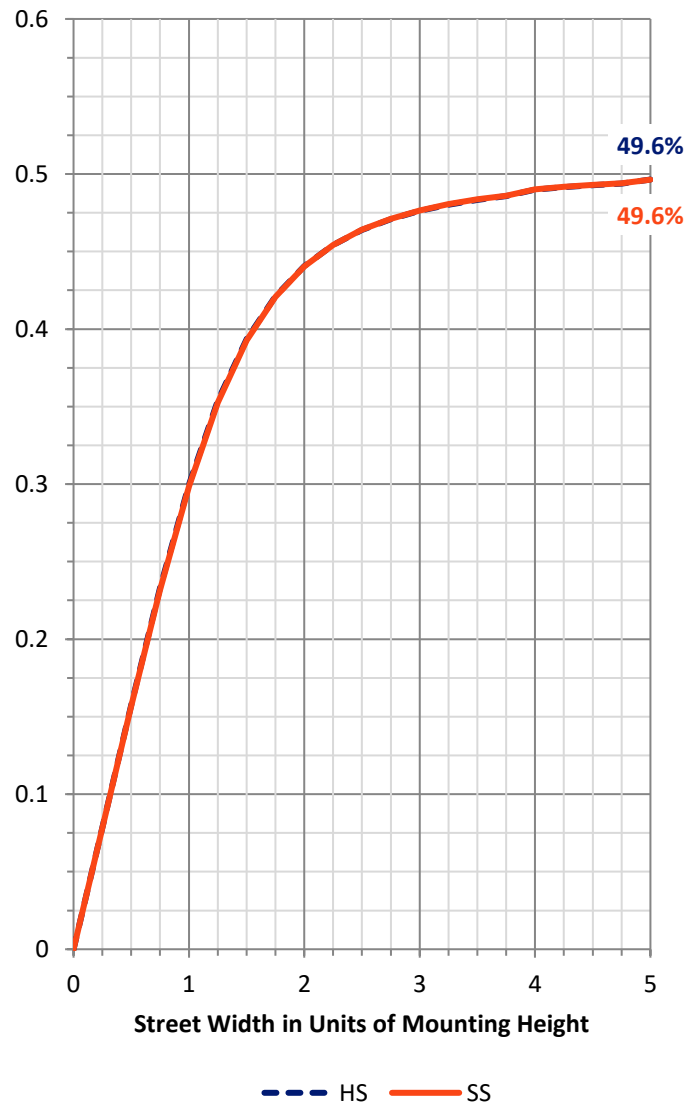
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4155.3	0.0	4155.3
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4155.3	0.0	4155.3
	% Fixture	50.0	0.0	50.0
Total	Lumens	8310.6	0.0	8310.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.1	0.9
10°-20°	257.9	3.1
20°-30°	525.3	6.3
30°-40°	959.4	11.5
40°-50°	1629.0	19.6
50°-60°	2121.4	25.5
60°-70°	1715.8	20.6
70°-80°	843.1	10.1
80°-90°	182.5	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°	8310.6	100.0
0°-180°	8310.6	100.0



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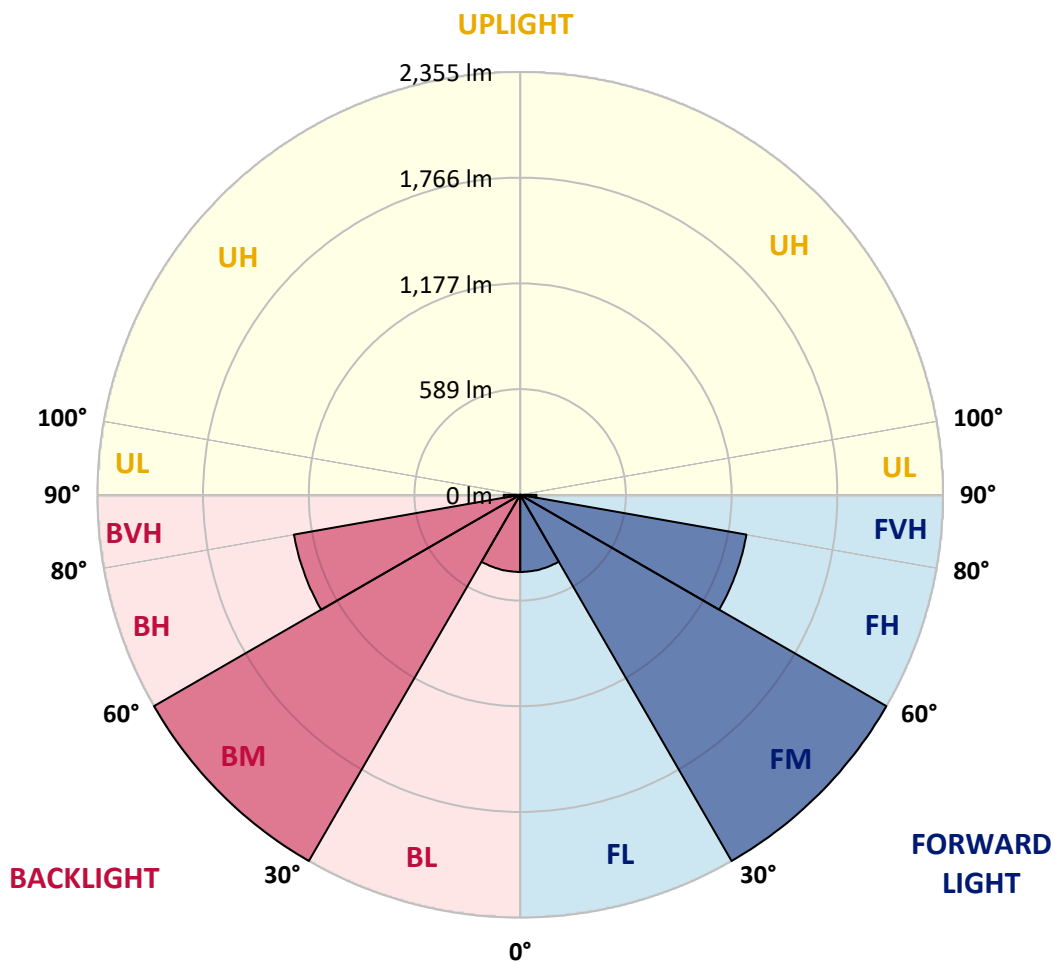
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	429.7	5.2			
FM	(30°-60°)	2354.9	28.3			
FH	(60°-80°)	1279.4	15.4			G1/1800
FVH	(80°-90°)	91.3	1.1			G1/100
BL	(0°-30°)	429.7	5.2	B1/500		
BM	(30°-60°)	2354.9	28.3	B2/2500		
BH	(60°-80°)	1279.4	15.4	B3/2500		G1/1800
BVH	(80°-90°)	91.3	1.1			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°	770.1	770.1	770.1	770.1	770.1	770.1	770.1	770.1	770.1	770.1	770.1
2.5°	773.5	773.5	773.5	773.5	773.5	773.5	775.1	775.1	775.1	775.1	775.1
5°	783.6	783.6	783.6	785.3	785.3	785.3	785.3	785.3	785.3	785.3	785.3
7.5°	798.9	797.2	798.9	798.9	798.9	800.6	800.6	798.9	800.6	800.6	800.6
10°	821.0	819.3	821.0	821.0	821.0	822.7	822.7	822.7	822.7	824.4	824.4
12.5°	853.3	851.6	853.3	855.0	853.3	855.0	855.0	855.0	855.0	855.0	855.0
15°	894.1	892.4	894.1	895.8	894.1	897.5	897.5	895.8	895.8	897.5	897.5
17.5°	943.4	940.0	941.7	943.4	943.4	946.8	946.8	945.1	946.8	948.5	946.8
20°	994.4	991.0	992.7	997.8	997.8	999.5	1002.9	1001.2	1002.9	1004.6	1002.9
22.5°	1050.5	1048.8	1050.5	1055.6	1055.6	1057.3	1062.4	1062.4	1062.4	1064.1	1062.4
25°	1111.7	1110.0	1111.7	1116.8	1116.8	1120.2	1127.0	1127.0	1128.7	1130.4	1128.7
27.5°	1183.1	1181.4	1184.8	1189.9	1191.6	1196.7	1205.2	1206.9	1208.6	1210.3	1206.9
30°	1266.4	1263.0	1268.1	1276.6	1280.0	1286.8	1297.0	1300.4	1302.1	1307.2	1303.8
32.5°	1361.6	1358.2	1365.0	1375.2	1380.3	1390.5	1404.1	1407.5	1412.6	1416.0	1410.9
35°	1473.8	1472.1	1478.9	1494.2	1502.7	1514.6	1533.3	1538.4	1541.8	1548.6	1541.8
37.5°	1597.9	1596.2	1608.1	1625.1	1640.4	1659.1	1679.5	1688.0	1693.1	1701.6	1693.1
40°	1735.6	1733.9	1749.2	1769.6	1788.3	1812.1	1837.6	1849.5	1859.7	1868.2	1858.0
42.5°	1876.7	1876.7	1895.4	1917.5	1944.7	1973.6	2002.5	2016.1	2033.1	2038.2	2026.3
45°	2012.7	2014.4	2033.1	2060.3	2099.4	2136.8	2169.1	2186.1	2204.8	2209.9	2194.6
47.5°	2141.9	2143.6	2160.6	2196.3	2240.5	2283.0	2322.0	2345.8	2364.5	2366.2	2354.3
50°	2247.3	2254.1	2276.2	2308.5	2354.3	2398.5	2446.1	2476.7	2495.4	2500.5	2488.6
52.5°	2288.1	2300.0	2325.4	2366.2	2418.9	2464.8	2517.5	2556.6	2578.7	2587.2	2577.0
55°	2250.7	2264.3	2294.9	2340.7	2398.5	2456.3	2510.7	2556.6	2587.2	2599.1	2588.9
57.5°	2167.4	2169.1	2199.7	2245.6	2298.3	2357.7	2410.4	2452.9	2481.8	2493.7	2492.0
60°	2022.9	2022.9	2051.8	2096.0	2136.8	2198.0	2242.2	2274.5	2294.9	2308.5	2305.1
62.5°	1829.1	1829.1	1854.6	1900.5	1941.3	1994.0	2036.5	2070.5	2084.1	2099.4	2102.8
65°	1613.2	1613.2	1637.0	1682.9	1720.3	1767.9	1808.7	1841.0	1854.6	1873.3	1869.9
67.5°	1383.7	1382.0	1404.1	1443.2	1478.9	1523.1	1562.2	1592.8	1608.1	1630.2	1614.9
70°	1147.4	1147.4	1166.1	1196.7	1222.2	1266.4	1303.8	1334.4	1346.3	1365.0	1356.5
72.5°	923.0	921.3	936.6	960.4	980.8	1019.9	1042.0	1076.0	1086.2	1111.7	1098.1
75°	720.8	717.4	729.3	746.3	759.9	785.3	802.3	829.5	838.0	855.0	848.2
77.5°	542.3	540.6	545.7	557.6	567.8	588.2	595.0	608.6	615.4	632.4	618.8
80°	389.3	384.2	389.3	396.1	399.5	414.8	416.5	421.6	425.0	436.9	423.3
82.5°	261.8	255.0	258.4	263.5	263.5	272.0	273.7	272.0	278.8	282.2	275.4
85°	149.6	144.5	146.2	149.6	147.9	153.0	153.0	151.3	156.4	156.4	153.0
87.5°	49.3	45.9	47.6	49.3	49.3	51.0	52.7	51.0	54.4	54.4	51.0
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°	770.1	770.1	770.1	770.1	770.1	770.1	770.1	770.1
2.5°	775.1	775.1	775.1	775.1	775.1	775.1	775.1	775.1
5°	785.3	785.3	785.3	785.3	785.3	783.6	783.6	783.6
7.5°	800.6	800.6	800.6	800.6	800.6	798.9	798.9	798.9
10°	824.4	822.7	822.7	822.7	822.7	821.0	822.7	821.0
12.5°	855.0	856.7	856.7	855.0	856.7	853.3	853.3	853.3
15°	897.5	895.8	895.8	895.8	895.8	894.1	894.1	894.1
17.5°	945.1	945.1	943.4	943.4	941.7	940.0	940.0	940.0
20°	1001.2	999.5	997.8	996.1	994.4	991.0	989.3	989.3
22.5°	1059.0	1057.3	1055.6	1053.9	1052.2	1048.8	1045.4	1045.4
25°	1123.6	1120.2	1118.5	1115.1	1111.7	1108.3	1106.6	1104.9
27.5°	1201.8	1198.4	1193.3	1188.2	1181.4	1179.7	1176.3	1176.3
30°	1295.3	1290.2	1283.4	1274.9	1268.1	1261.3	1257.9	1256.2
32.5°	1404.1	1397.3	1385.4	1375.2	1363.3	1356.5	1351.4	1348.0
35°	1531.6	1521.4	1507.8	1492.5	1477.2	1465.3	1456.8	1456.8
37.5°	1681.2	1665.9	1645.5	1626.8	1604.7	1591.1	1580.9	1574.1
40°	1844.4	1822.3	1796.8	1773.0	1747.5	1728.8	1713.5	1715.2
42.5°	2005.9	1987.2	1956.6	1927.7	1895.4	1869.9	1851.2	1849.5
45°	2175.9	2152.1	2114.7	2077.3	2039.9	2009.3	1987.2	1983.8
47.5°	2333.9	2308.5	2264.3	2218.4	2177.6	2143.6	2119.8	2116.4
50°	2463.1	2432.5	2386.6	2337.3	2293.2	2255.8	2230.3	2223.5
52.5°	2546.4	2512.4	2463.1	2403.6	2356.0	2313.6	2283.0	2274.5
55°	2560.0	2515.8	2463.1	2396.8	2344.1	2296.6	2262.6	2252.4
57.5°	2466.5	2418.9	2371.3	2313.6	2260.9	2209.9	2182.7	2169.1
60°	2284.7	2247.3	2208.2	2155.5	2113.0	2065.4	2043.3	2036.5
62.5°	2075.6	2043.3	2007.6	1953.2	1917.5	1875.0	1854.6	1846.1
65°	1851.2	1813.8	1779.8	1735.6	1696.5	1660.8	1631.9	1628.5
67.5°	1603.0	1563.9	1535.0	1495.9	1456.8	1422.8	1404.1	1393.9
70°	1341.2	1308.9	1280.0	1237.5	1212.0	1179.7	1166.1	1155.9
72.5°	1081.1	1062.4	1026.7	999.5	970.6	945.1	936.6	926.4
75°	836.3	814.2	787.0	770.1	748.0	734.4	727.6	720.8
77.5°	613.7	595.0	579.7	572.9	562.7	549.1	544.0	538.9
80°	425.0	416.5	406.3	404.6	397.8	387.6	385.9	384.2
82.5°	275.4	270.3	266.9	266.9	263.5	256.7	255.0	255.0
85°	153.0	151.3	153.0	151.3	147.9	144.5	144.5	144.5
87.5°	51.0	51.0	52.7	54.4	49.3	49.3	47.6	47.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)