

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: P197938

Luminaire Tested: **TT-C6-LED-E1-WQ-SG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197938
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-C6-LED-E1-WQ-SG
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10725.3 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 108
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

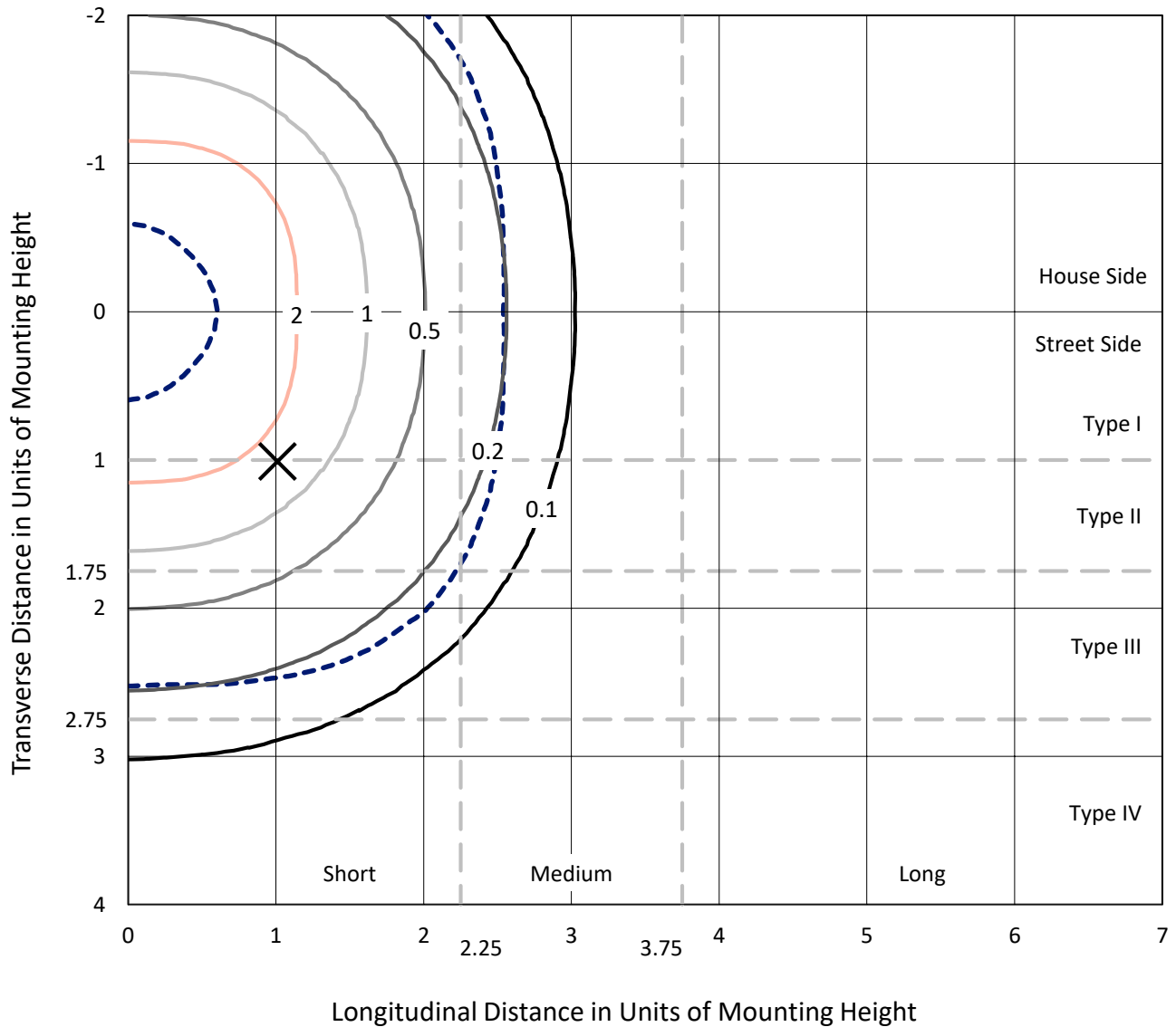


REPORT NUMBER: P197938

CATALOG NUMBER: TT-C6-LED-E1-WQ-SG

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

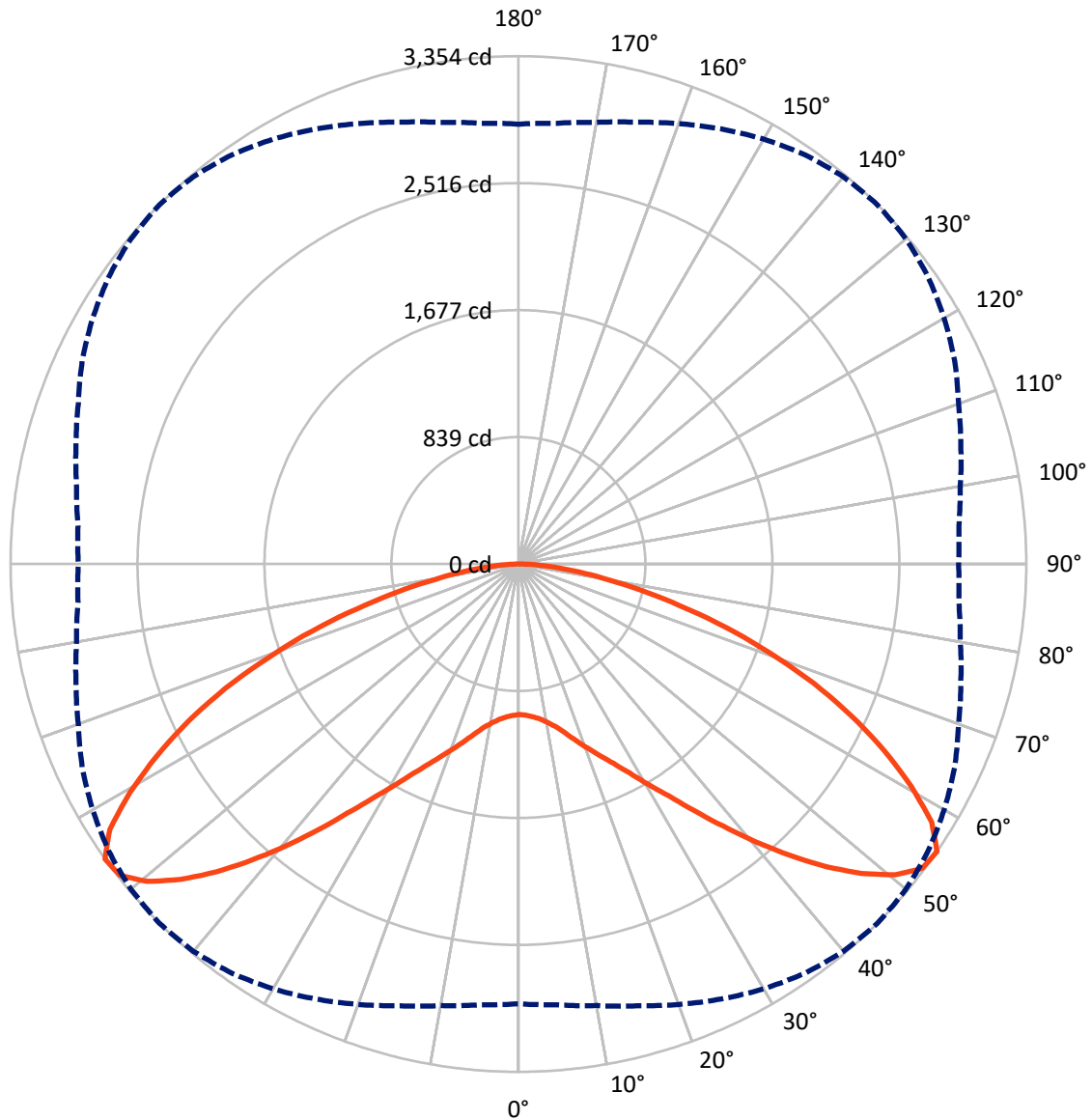


Based on 20 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - Full Cutoff

REPORT NUMBER: P197938

CATALOG NUMBER: TT-C6-LED-E1-WQ-SG

Luminous Intensity Polar Plot



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

REPORT NUMBER: P197938

CATALOG NUMBER: TT-C6-LED-E1-WQ-SG

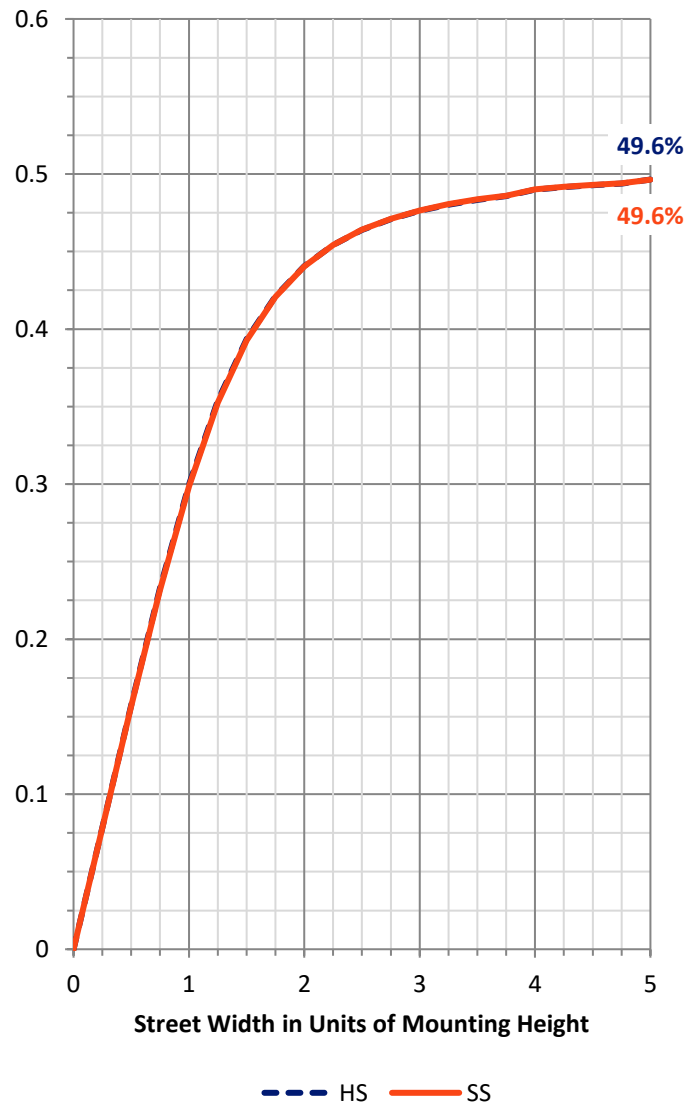
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5362.7	0.0	5362.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5362.7	0.0	5362.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	10725.3	0.0	10725.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.2	0.9
10°-20°	332.9	3.1
20°-30°	678.0	6.3
30°-40°	1238.1	11.5
40°-50°	2102.3	19.6
50°-60°	2737.9	25.5
60°-70°	2214.3	20.6
70°-80°	1088.1	10.1
80°-90°	235.5	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°	10725.3	100.0
0°-180°	10725.3	100.0



REPORT NUMBER: P197938

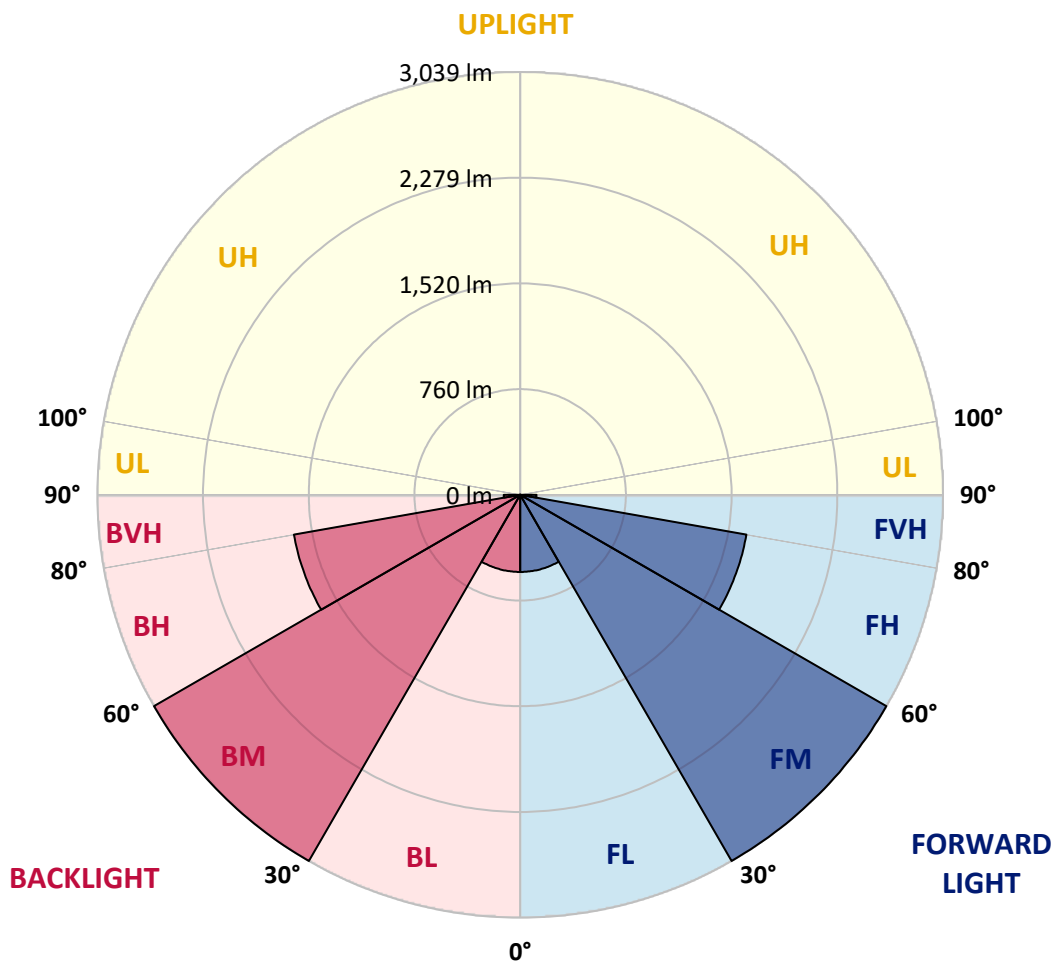
CATALOG NUMBER: TT-C6-LED-E1-WQ-SG

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	554.6	5.2			
FM	(30°-60°)	3039.1	28.3			
FH	(60°-80°)	1651.2	15.4			G1/1800
FVH	(80°-90°)	117.8	1.1			G2/225
BL	(0°-30°)	554.6	5.2	B2/1000		
BM	(30°-60°)	3039.1	28.3	B3/5000		
BH	(60°-80°)	1651.2	15.4	B3/2500		G1/1800
BVH	(80°-90°)	117.8	1.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short





REPORT NUMBER: P197938

CATALOG NUMBER: TT-C6-LED-E1-WQ-SG

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	993.8	993.8	993.8	993.8	993.8	993.8	993.8	993.8	993.8	993.8	993.8
2.5°	998.2	998.2	998.2	998.2	998.2	998.2	1000.4	1000.4	1000.4	1000.4	1000.4
5°	1011.4	1011.4	1011.4	1013.5	1013.5	1013.5	1013.5	1013.5	1013.5	1013.5	1013.5
7.5°	1031.1	1028.9	1031.1	1031.1	1031.1	1033.3	1033.3	1031.1	1033.3	1033.3	1033.3
10°	1059.6	1057.4	1059.6	1059.6	1059.6	1061.8	1061.8	1061.8	1061.8	1064.0	1064.0
12.5°	1101.3	1099.1	1101.3	1103.5	1101.3	1103.5	1103.5	1103.5	1103.5	1103.5	1103.5
15°	1154.0	1151.8	1154.0	1156.1	1154.0	1158.3	1158.3	1156.1	1156.1	1158.3	1158.3
17.5°	1217.6	1213.2	1215.4	1217.6	1217.6	1222.0	1222.0	1219.8	1222.0	1224.2	1222.0
20°	1283.4	1279.0	1281.2	1287.8	1287.8	1290.0	1294.4	1292.2	1294.4	1296.5	1294.4
22.5°	1355.8	1353.6	1355.8	1362.4	1362.4	1364.6	1371.1	1371.1	1371.1	1373.3	1371.1
25°	1434.8	1432.6	1434.8	1441.3	1441.3	1445.7	1454.5	1454.5	1456.7	1458.9	1456.7
27.5°	1526.9	1524.7	1529.1	1535.7	1537.9	1544.5	1555.4	1557.6	1559.8	1562.0	1557.6
30°	1634.4	1630.0	1636.6	1647.6	1651.9	1660.7	1673.9	1678.3	1680.5	1687.1	1682.7
32.5°	1757.3	1752.9	1761.6	1774.8	1781.4	1794.5	1812.1	1816.5	1823.1	1827.5	1820.9
35°	1902.0	1899.9	1908.6	1928.4	1939.3	1954.7	1978.8	1985.4	1989.8	1998.6	1989.8
37.5°	2062.2	2060.0	2075.4	2097.3	2117.0	2141.2	2167.5	2178.5	2185.0	2196.0	2185.0
40°	2239.9	2237.7	2257.4	2283.8	2307.9	2338.6	2371.5	2386.9	2400.0	2411.0	2397.8
42.5°	2422.0	2422.0	2446.1	2474.6	2509.7	2547.0	2584.3	2601.9	2623.8	2630.4	2615.0
45°	2597.5	2599.7	2623.8	2658.9	2709.4	2757.6	2799.3	2821.3	2845.4	2852.0	2832.2
47.5°	2764.2	2766.4	2788.3	2834.4	2891.5	2946.3	2996.8	3027.5	3051.6	3053.8	3038.4
50°	2900.2	2909.0	2937.5	2979.2	3038.4	3095.5	3156.9	3196.4	3220.5	3227.1	3211.8
52.5°	2952.9	2968.2	3001.2	3053.8	3121.8	3181.0	3249.1	3299.5	3328.0	3339.0	3325.8
55°	2904.6	2922.2	2961.7	3020.9	3095.5	3170.1	3240.3	3299.5	3339.0	3354.4	3341.2
57.5°	2797.1	2799.3	2838.8	2898.0	2966.0	3042.8	3110.8	3165.7	3203.0	3218.3	3216.1
60°	2610.6	2610.6	2647.9	2705.0	2757.6	2836.6	2893.7	2935.3	2961.7	2979.2	2974.8
62.5°	2360.6	2360.6	2393.5	2452.7	2505.3	2573.4	2628.2	2672.1	2689.6	2709.4	2713.8
65°	2081.9	2081.9	2112.7	2171.9	2220.1	2281.6	2334.2	2375.9	2393.5	2417.6	2413.2
67.5°	1785.8	1783.6	1812.1	1862.6	1908.6	1965.7	2016.1	2055.6	2075.4	2103.9	2084.1
70°	1480.8	1480.8	1505.0	1544.5	1577.4	1634.4	1682.7	1722.2	1737.5	1761.6	1750.7
72.5°	1191.2	1189.1	1208.8	1239.5	1265.8	1316.3	1344.8	1388.7	1401.9	1434.8	1417.2
75°	930.2	925.8	941.2	963.1	980.6	1013.5	1035.5	1070.6	1081.6	1103.5	1094.7
77.5°	699.8	697.6	704.2	719.6	732.7	759.1	767.8	785.4	794.2	816.1	798.6
80°	502.4	495.8	502.4	511.2	515.5	535.3	537.5	544.1	548.5	563.8	546.3
82.5°	337.8	329.1	333.5	340.0	340.0	351.0	353.2	351.0	359.8	364.2	355.4
85°	193.1	186.5	188.7	193.1	190.9	197.4	197.4	195.3	201.8	201.8	197.4
87.5°	63.6	59.2	61.4	63.6	63.6	65.8	68.0	65.8	70.2	70.2	65.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P197938

CATALOG NUMBER: TT-C6-LED-E1-WQ-SG

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	993.8	993.8	993.8	993.8	993.8	993.8	993.8	993.8
2.5°	1000.4	1000.4	1000.4	1000.4	1000.4	1000.4	1000.4	1000.4
5°	1013.5	1013.5	1013.5	1013.5	1013.5	1011.4	1011.4	1011.4
7.5°	1033.3	1033.3	1033.3	1033.3	1033.3	1031.1	1031.1	1031.1
10°	1064.0	1061.8	1061.8	1061.8	1061.8	1059.6	1061.8	1059.6
12.5°	1103.5	1105.7	1105.7	1103.5	1105.7	1101.3	1101.3	1101.3
15°	1158.3	1156.1	1156.1	1156.1	1156.1	1154.0	1154.0	1154.0
17.5°	1219.8	1219.8	1217.6	1217.6	1215.4	1213.2	1213.2	1213.2
20°	1292.2	1290.0	1287.8	1285.6	1283.4	1279.0	1276.8	1276.8
22.5°	1366.8	1364.6	1362.4	1360.2	1358.0	1353.6	1349.2	1349.2
25°	1450.1	1445.7	1443.5	1439.1	1434.8	1430.4	1428.2	1426.0
27.5°	1551.0	1546.6	1540.1	1533.5	1524.7	1522.5	1518.1	1518.1
30°	1671.7	1665.1	1656.3	1645.4	1636.6	1627.8	1623.4	1621.2
32.5°	1812.1	1803.3	1788.0	1774.8	1759.4	1750.7	1744.1	1739.7
35°	1976.6	1963.5	1945.9	1926.2	1906.4	1891.1	1880.1	1880.1
37.5°	2169.7	2149.9	2123.6	2099.5	2071.0	2053.4	2040.3	2031.5
40°	2380.3	2351.8	2318.9	2288.2	2255.3	2231.1	2211.4	2213.6
42.5°	2588.7	2564.6	2525.1	2487.8	2446.1	2413.2	2389.1	2386.9
45°	2808.1	2777.4	2729.1	2680.9	2632.6	2593.1	2564.6	2560.2
47.5°	3012.1	2979.2	2922.2	2862.9	2810.3	2766.4	2735.7	2731.3
50°	3178.8	3139.4	3080.1	3016.5	2959.5	2911.2	2878.3	2869.5
52.5°	3286.3	3242.5	3178.8	3102.1	3040.6	2985.8	2946.3	2935.3
55°	3303.9	3246.9	3178.8	3093.3	3025.3	2963.9	2920.0	2906.8
57.5°	3183.2	3121.8	3060.4	2985.8	2917.8	2852.0	2816.9	2799.3
60°	2948.5	2900.2	2849.8	2781.8	2726.9	2665.5	2637.0	2628.2
62.5°	2678.7	2637.0	2590.9	2520.7	2474.6	2419.8	2393.5	2382.5
65°	2389.1	2340.8	2296.9	2239.9	2189.4	2143.4	2106.1	2101.7
67.5°	2068.8	2018.3	1981.0	1930.6	1880.1	1836.2	1812.1	1798.9
70°	1730.9	1689.2	1651.9	1597.1	1564.2	1522.5	1505.0	1491.8
72.5°	1395.3	1371.1	1325.1	1290.0	1252.7	1219.8	1208.8	1195.6
75°	1079.4	1050.8	1015.7	993.8	965.3	947.7	939.0	930.2
77.5°	792.0	767.8	748.1	739.3	726.2	708.6	702.0	695.4
80°	548.5	537.5	524.3	522.1	513.4	500.2	498.0	495.8
82.5°	355.4	348.8	344.4	344.4	340.0	331.3	329.1	329.1
85°	197.4	195.3	197.4	195.3	190.9	186.5	186.5	186.5
87.5°	65.8	65.8	68.0	70.2	63.6	63.6	61.4	61.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)