

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: P197550

Luminaire Tested: **TT-C5-LED-E1-5CQ-PM-MS/DIM**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197550
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115423)
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-E1-5CQ-PM-MS/DIM
Description: TOPTIER LED AREA/SITE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9211 lumens
Efficiency: N/A
Efficacy: 119.6 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

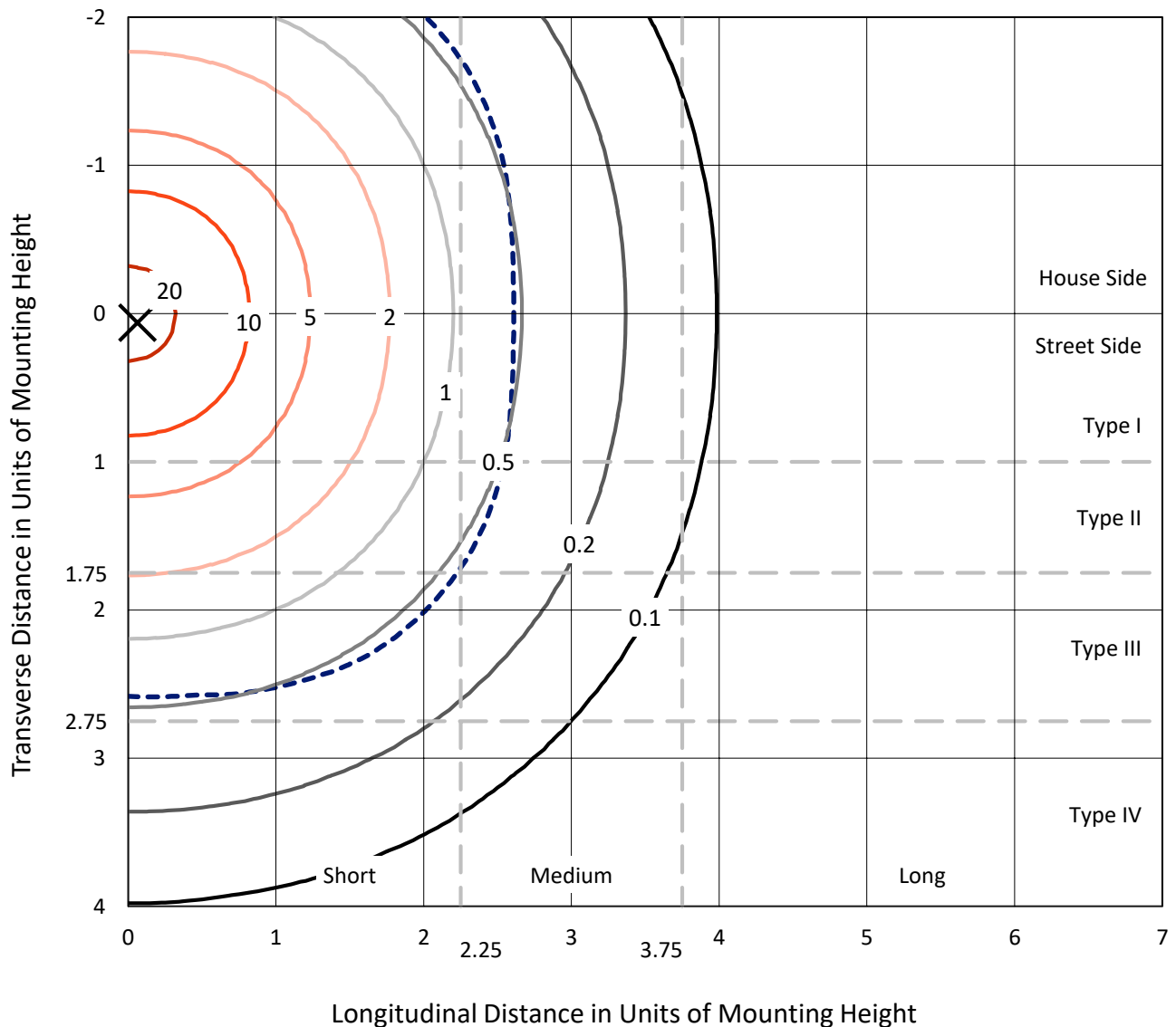
Input Watts (W): 77
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

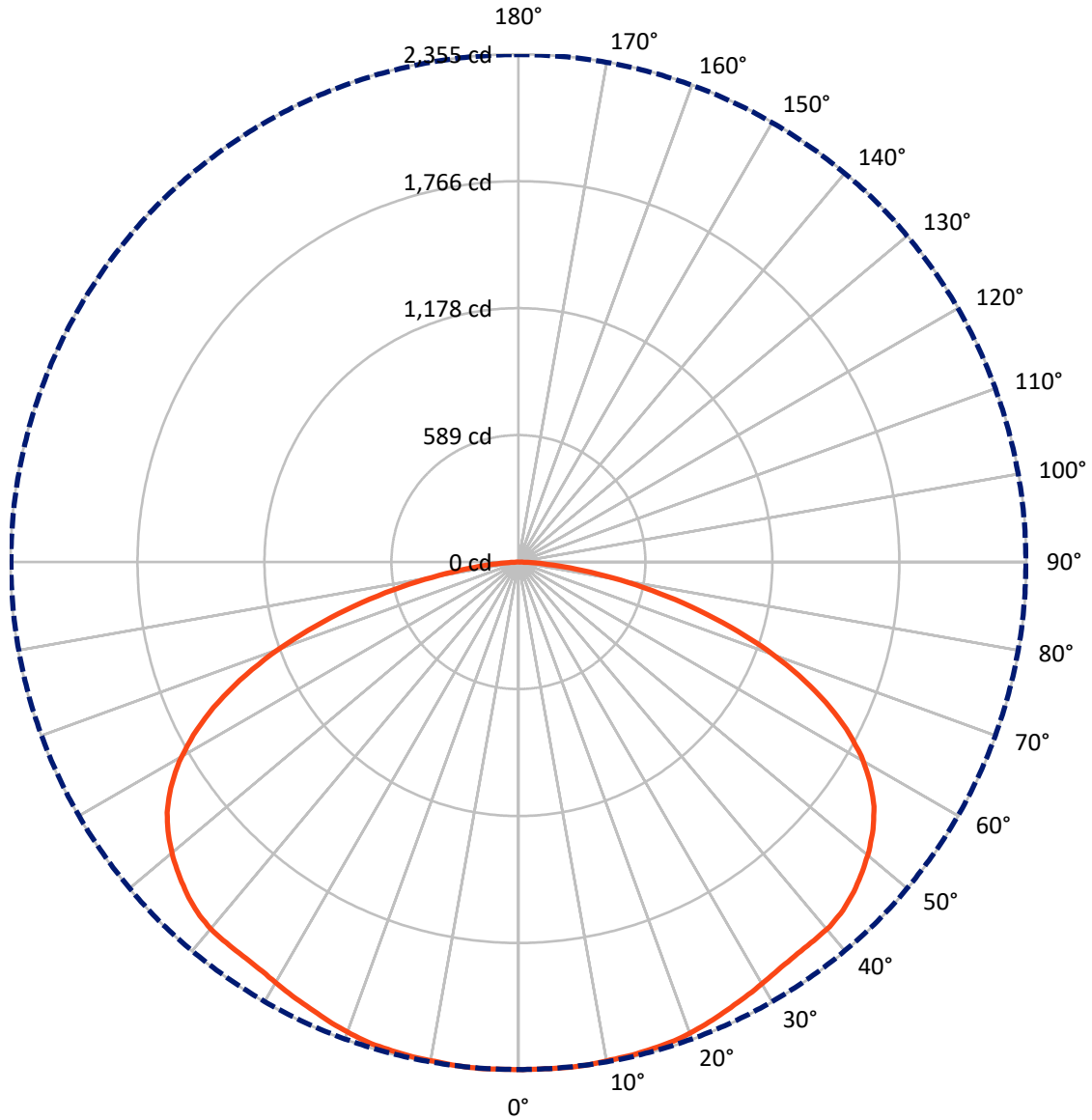
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 23.5 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 5-Deg Vertical

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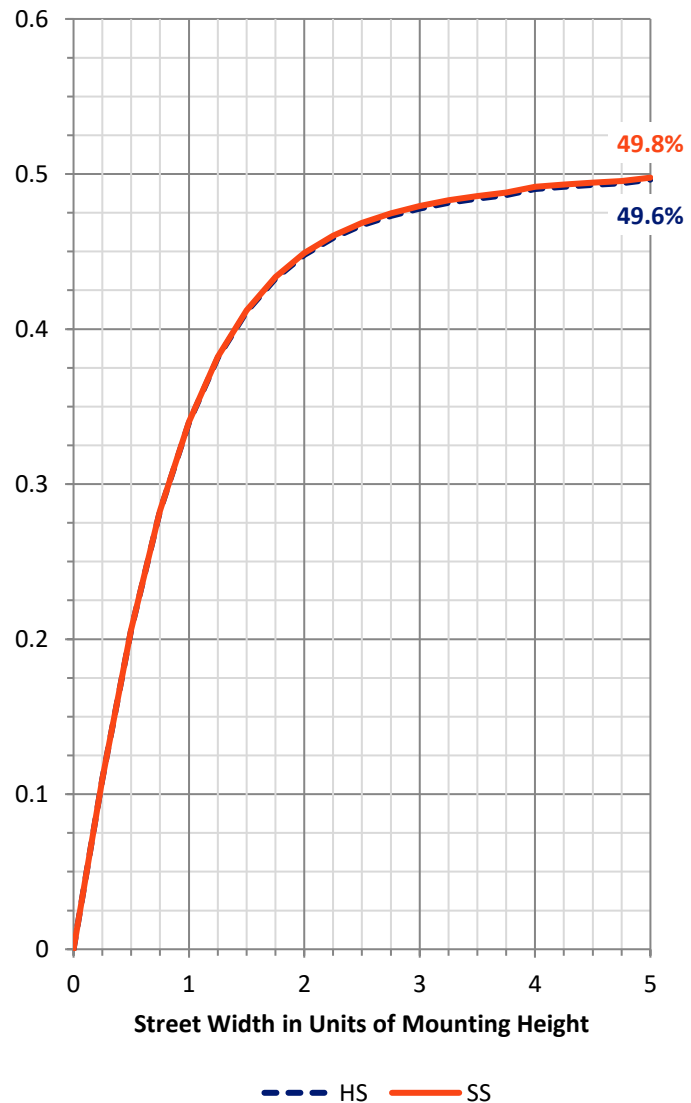
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4605.5	0.0	4605.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4605.5	0.0	4605.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	9211.0	0.0	9211.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	224.5	2.4
10°-20°	662.0	7.2
20°-30°	1056.5	11.5
30°-40°	1391.6	15.1
40°-50°	1655.4	18.0
50°-60°	1732.5	18.8
60°-70°	1473.3	16.0
70°-80°	837.3	9.1
80°-90°	178.0	1.9
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°	9211.0	100.0
0°-180°	9211.0	100.0



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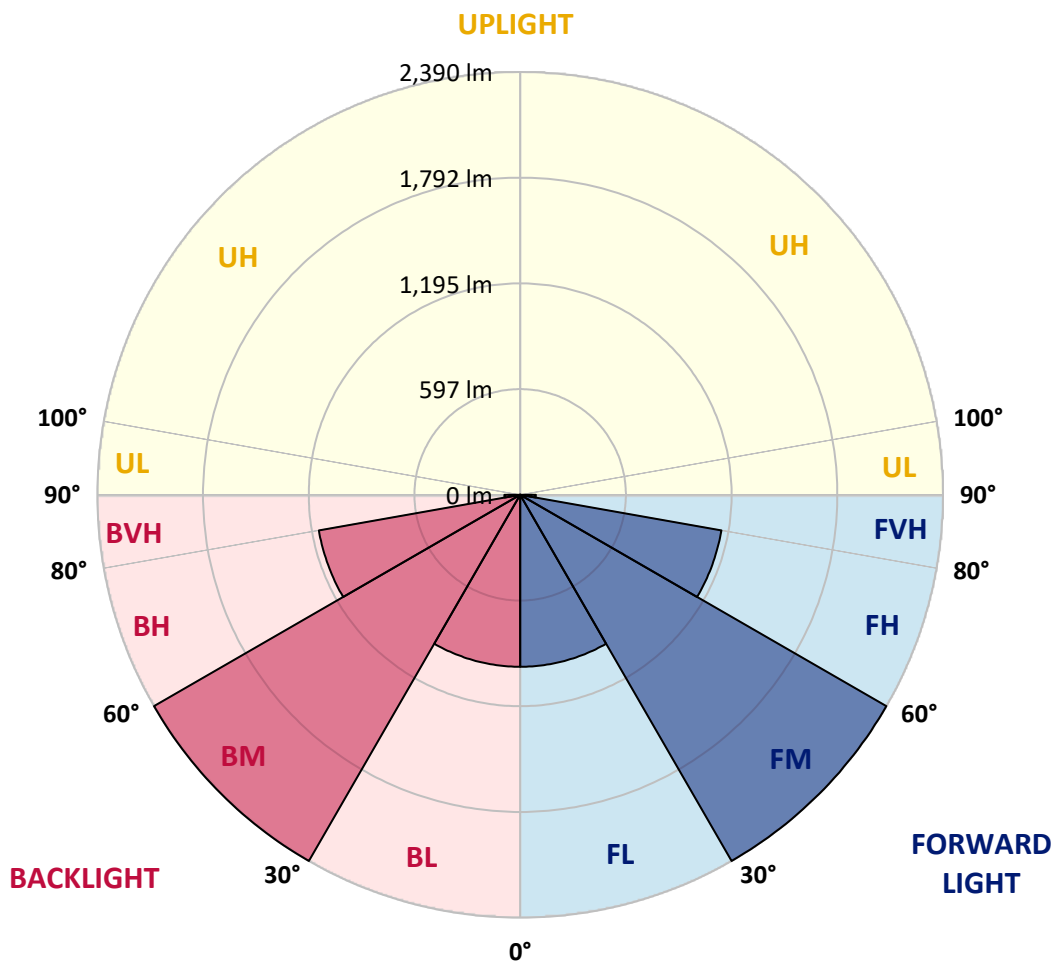
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	971.5	10.5			
FM	(30°-60°)	2389.7	25.9			
FH	(60°-80°)	1155.3	12.5			G1/1800
FVH	(80°-90°)	89.0	1.0			G1/100
BL	(0°-30°)	971.5	10.5	B2/1000		
BM	(30°-60°)	2389.7	25.9	B2/2500		
BH	(60°-80°)	1155.3	12.5	B3/2500		G1/1800
BVH	(80°-90°)	89.0	1.0			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°	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4
2.5°	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4
5°	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4	2355.2	2353.4
7.5°	2351.5	2351.5	2351.5	2351.5	2353.4	2351.5	2351.5	2353.4	2353.4	2353.4	2353.4
10°	2347.9	2346.1	2346.1	2347.9	2347.9	2347.9	2347.9	2347.9	2349.7	2347.9	2347.9
12.5°	2342.4	2340.6	2342.4	2342.4	2342.4	2344.3	2344.3	2344.3	2346.1	2346.1	2344.3
15°	2337.0	2337.0	2337.0	2337.0	2337.0	2338.9	2338.9	2340.6	2340.6	2340.6	2340.6
17.5°	2329.8	2329.8	2329.8	2331.6	2331.6	2333.3	2333.3	2333.3	2335.2	2335.2	2335.2
20°	2317.0	2315.2	2317.0	2317.0	2318.8	2320.7	2320.7	2322.5	2322.5	2322.5	2322.5
22.5°	2298.8	2298.8	2300.7	2300.7	2302.5	2304.3	2304.3	2306.2	2306.2	2306.2	2306.2
25°	2280.8	2282.5	2282.5	2284.3	2284.3	2286.2	2288.0	2288.0	2288.0	2288.0	2288.0
27.5°	2262.6	2264.3	2264.3	2264.3	2266.2	2268.0	2269.8	2271.7	2273.4	2271.7	2271.7
30°	2242.6	2242.6	2244.4	2246.3	2248.0	2249.8	2253.5	2255.3	2257.1	2255.3	2255.3
32.5°	2220.8	2222.6	2224.4	2226.2	2229.9	2233.5	2237.2	2238.9	2240.7	2238.9	2238.9
35°	2204.5	2204.5	2208.1	2211.7	2215.3	2220.8	2224.4	2228.1	2231.7	2229.9	2228.1
37.5°	2188.1	2188.1	2191.7	2197.1	2204.5	2211.7	2219.0	2224.4	2226.2	2226.2	2224.4
40°	2168.2	2170.0	2173.6	2182.7	2193.6	2202.7	2211.7	2219.0	2222.6	2222.6	2219.0
42.5°	2146.3	2148.1	2153.7	2162.6	2175.4	2186.3	2197.1	2202.7	2208.1	2208.1	2204.5
45°	2115.5	2117.3	2124.6	2133.6	2146.3	2157.2	2170.0	2175.4	2182.7	2180.8	2179.1
47.5°	2075.5	2077.4	2084.6	2093.7	2106.4	2119.1	2131.8	2140.9	2146.3	2146.3	2144.6
50°	2026.5	2028.3	2035.6	2044.6	2061.0	2075.5	2088.2	2097.3	2106.4	2106.4	2104.5
52.5°	1964.8	1968.3	1973.9	1986.5	2004.7	2021.0	2037.4	2052.0	2057.4	2059.2	2057.4
55°	1888.5	1892.1	1899.4	1913.9	1933.9	1953.8	1972.0	1988.4	1995.6	2001.1	1997.4
57.5°	1799.5	1803.2	1812.2	1828.6	1850.3	1870.3	1893.9	1912.1	1917.5	1923.0	1921.2
60°	1694.2	1699.6	1708.7	1726.9	1748.6	1770.5	1792.2	1814.1	1819.5	1826.7	1823.2
62.5°	1570.7	1576.2	1585.3	1605.2	1628.9	1648.8	1674.2	1694.2	1699.6	1706.9	1705.1
65°	1429.1	1434.6	1443.6	1465.4	1487.2	1509.0	1532.6	1554.3	1559.9	1567.1	1565.3
67.5°	1267.4	1273.0	1282.0	1307.5	1329.2	1351.0	1371.0	1392.7	1396.4	1403.6	1401.8
70°	1096.7	1104.1	1111.3	1134.9	1154.9	1173.0	1194.9	1213.0	1220.3	1223.9	1220.3
72.5°	926.1	931.5	938.8	955.1	969.6	986.1	1007.8	1020.5	1026.0	1027.8	1027.8
75°	749.9	755.4	755.4	773.6	784.4	793.5	811.7	820.8	824.4	828.0	828.0
77.5°	582.9	579.3	582.9	590.1	597.4	604.7	615.5	621.1	624.6	631.9	628.3
80°	408.6	410.4	412.2	417.7	421.3	423.1	430.3	432.2	434.0	441.3	437.6
82.5°	263.3	259.6	263.3	261.5	265.1	259.6	263.3	268.7	265.1	268.7	270.6
85°	138.0	132.5	132.5	134.4	136.2	132.5	134.4	132.5	132.5	136.2	134.4
87.5°	43.6	41.8	43.6	41.8	43.6	41.8	43.6	45.4	43.6	43.6	45.4
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°	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4
2.5°	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4
5°	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4	2353.4
7.5°	2351.5	2351.5	2351.5	2351.5	2351.5	2351.5	2349.7	2351.5
10°	2347.9	2347.9	2347.9	2347.9	2346.1	2346.1	2346.1	2346.1
12.5°	2344.3	2344.3	2342.4	2342.4	2342.4	2342.4	2340.6	2340.6
15°	2340.6	2338.9	2338.9	2337.0	2337.0	2337.0	2335.2	2337.0
17.5°	2335.2	2333.3	2333.3	2331.6	2331.6	2329.8	2329.8	2329.8
20°	2322.5	2320.7	2320.7	2318.8	2318.8	2317.0	2315.2	2315.2
22.5°	2304.3	2304.3	2304.3	2302.5	2300.7	2300.7	2298.8	2298.8
25°	2288.0	2286.2	2286.2	2284.3	2282.5	2282.5	2280.8	2280.8
27.5°	2271.7	2269.8	2268.0	2264.3	2264.3	2262.6	2260.8	2258.9
30°	2253.5	2249.8	2246.3	2244.4	2242.6	2238.9	2237.2	2235.3
32.5°	2235.3	2231.7	2228.1	2224.4	2219.0	2217.2	2213.5	2213.5
35°	2224.4	2219.0	2213.5	2206.2	2200.8	2195.4	2191.7	2189.9
37.5°	2219.0	2211.7	2202.7	2193.6	2184.5	2177.2	2171.7	2171.7
40°	2211.7	2202.7	2191.7	2179.1	2168.2	2159.1	2153.7	2151.8
42.5°	2197.1	2188.1	2173.6	2162.6	2148.1	2139.1	2131.8	2130.0
45°	2171.7	2162.6	2150.0	2135.5	2120.9	2110.1	2102.8	2101.0
47.5°	2139.1	2128.2	2113.6	2099.1	2084.6	2071.9	2064.6	2062.8
50°	2097.3	2086.4	2071.9	2057.4	2041.0	2028.3	2019.2	2019.2
52.5°	2050.1	2037.4	2021.0	2004.7	1986.5	1973.9	1964.8	1962.9
55°	1988.4	1973.9	1957.5	1939.3	1919.3	1904.8	1893.9	1892.1
57.5°	1912.1	1895.8	1877.6	1857.7	1837.7	1821.3	1808.6	1806.8
60°	1815.8	1797.7	1779.6	1759.6	1737.8	1719.6	1706.9	1703.3
62.5°	1697.8	1677.9	1657.9	1639.7	1616.1	1597.9	1585.3	1581.6
65°	1558.0	1541.7	1521.7	1499.9	1474.5	1456.3	1443.6	1441.8
67.5°	1394.6	1378.2	1358.3	1338.3	1312.9	1296.5	1283.8	1280.2
70°	1214.8	1200.3	1183.9	1163.9	1142.2	1125.8	1113.1	1111.3
72.5°	1024.1	1011.5	996.9	982.4	960.6	947.9	937.0	935.2
75°	828.0	815.4	804.4	793.5	777.2	768.1	757.3	757.3
77.5°	628.3	624.6	617.4	604.7	595.6	588.3	582.9	579.3
80°	439.4	435.9	432.2	424.9	419.4	417.7	414.0	410.4
82.5°	268.7	266.9	268.7	265.1	263.3	263.3	261.5	257.9
85°	136.2	138.0	136.2	134.4	134.4	134.4	134.4	132.5
87.5°	43.6	45.4	43.6	41.8	41.8	41.8	41.8	39.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)