

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: STREETWORKS

Report Number: P157322

Luminaire Tested: **VST-E02-LED-E-U-5MQ-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157322
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33708)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E02-LED-E-U-5MQ-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (42) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6564.7 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B3 - U0 - G1

Input Watts (W): 52.1
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: 28.75 FT



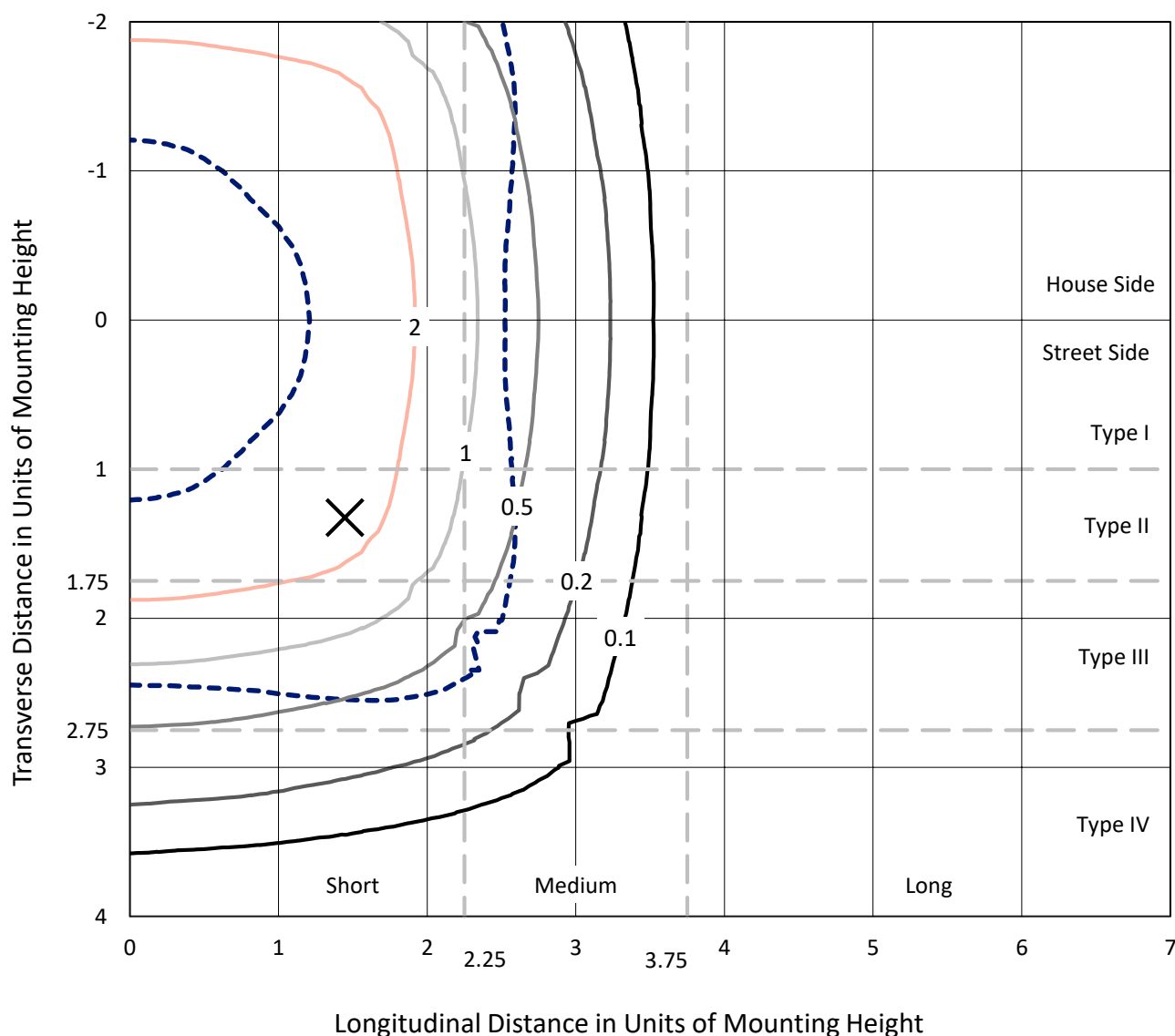
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

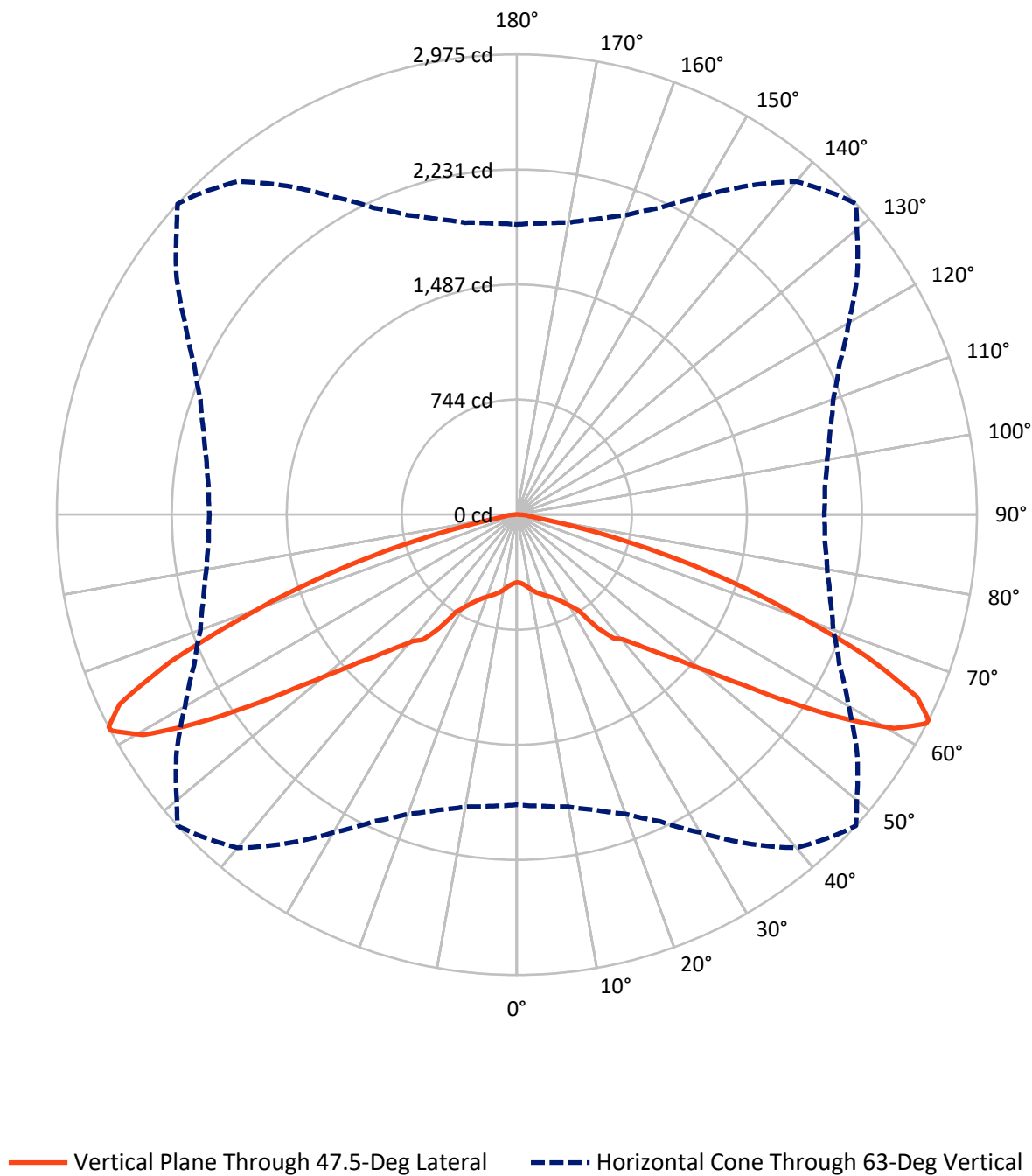


Based on 10 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3282.4	0.0	3282.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3282.4	0.0	3282.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	6564.7	0.0	6564.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	44.0	0.7
10°-20°	149.6	2.3
20°-30°	286.1	4.4
30°-40°	547.4	8.3
40°-50°	947.1	14.4
50°-60°	1701.0	25.9
60°-70°	2068.5	31.5
70°-80°	747.0	11.4
80°-90°	74.0	1.1
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°	6564.7	100.0
0°-180°	6564.7	100.0

Coefficient of Utilization



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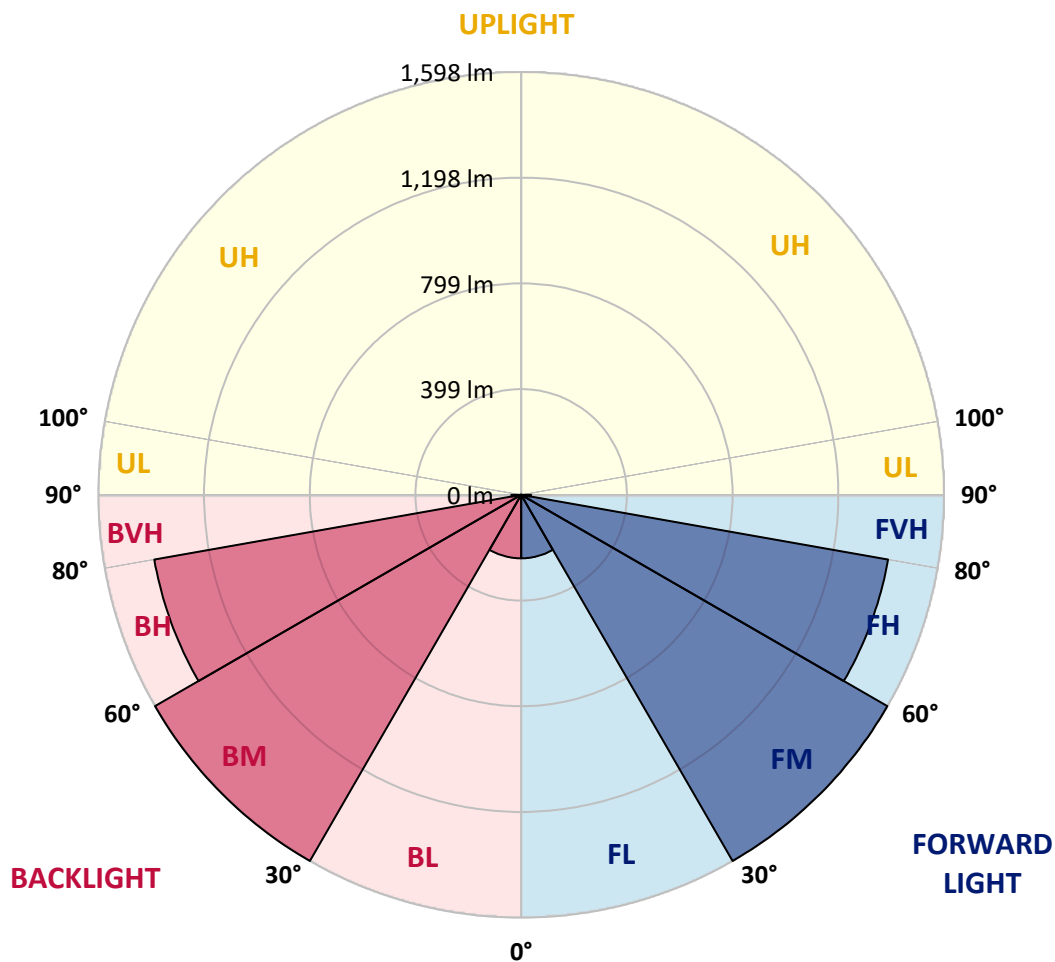
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	239.9	3.7			
FM	(30°-60°)	1597.8	24.3			
FH	(60°-80°)	1407.7	21.4			G1/1800
FVH	(80°-90°)	37.0	0.6			G1/100
BL	(0°-30°)	239.9	3.7	B1/500		
BM	(30°-60°)	1597.8	24.3	B2/2500		
BH	(60°-80°)	1407.7	21.4	B3/2500		G1/1800
BVH	(80°-90°)	37.0	0.6			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°	47.5°
0°	438.4	438.4	438.4	438.4	438.4	438.4	438.4	438.4	438.4	438.4	438.4
2.5°	441.2	440.4	440.8	441.2	440.8	440.4	440.4	440.4	441.2	440.4	442.4
5°	449.8	449.0	449.5	449.5	449.5	448.6	448.6	448.6	448.2	448.6	453.1
7.5°	466.3	465.1	464.6	465.4	464.6	464.2	463.8	463.8	463.0	463.0	468.7
10°	485.9	484.3	485.2	485.6	484.3	483.5	483.5	483.5	482.3	481.9	489.2
12.5°	507.7	506.9	506.9	506.1	505.7	504.8	504.4	504.8	503.2	503.2	510.6
15°	528.7	527.0	527.4	526.2	525.4	524.5	524.2	523.7	522.9	522.9	527.4
17.5°	547.9	546.7	546.3	545.0	543.8	542.6	541.8	541.4	540.1	540.1	544.3
20°	568.1	566.8	566.0	563.9	561.9	560.6	559.0	558.2	556.6	557.0	561.5
22.5°	591.1	589.0	587.3	585.7	582.0	579.5	577.5	575.9	575.0	575.0	581.2
25°	621.8	620.6	618.1	612.8	608.3	604.6	601.3	599.6	598.0	597.2	606.7
27.5°	659.6	658.3	655.1	649.7	643.6	637.4	633.7	630.8	628.8	627.5	641.1
30°	709.7	707.6	704.7	696.1	690.8	681.4	677.2	673.1	668.6	669.8	685.9
32.5°	807.8	804.9	795.8	786.4	770.0	757.3	744.1	734.3	724.9	723.6	740.8
35°	896.8	895.6	893.9	887.4	881.2	873.4	867.2	857.0	848.4	846.4	894.8
37.5°	944.8	947.7	945.2	944.4	944.4	948.1	959.6	971.1	979.3	984.2	1011.3
40°	1018.3	1018.3	1015.4	1013.8	1010.5	1015.4	1020.4	1029.0	1032.7	1033.1	1060.6
42.5°	1101.6	1102.0	1099.1	1094.2	1092.6	1097.1	1103.7	1111.9	1116.8	1118.0	1150.1
45°	1194.4	1193.2	1190.7	1189.1	1190.3	1194.4	1202.2	1218.2	1225.6	1231.3	1266.2
47.5°	1294.9	1303.1	1296.2	1297.4	1297.4	1310.2	1327.8	1340.9	1352.8	1363.9	1400.8
50°	1426.7	1427.9	1429.1	1432.9	1435.3	1452.1	1474.3	1489.9	1507.1	1521.5	1581.8
52.5°	1602.8	1600.3	1606.5	1610.6	1624.6	1633.6	1670.5	1690.2	1714.0	1732.5	1820.7
55°	1813.3	1812.1	1821.1	1824.4	1842.9	1865.0	1906.1	1949.2	1989.8	2012.4	2133.1
57.5°	1964.4	1967.6	1983.2	2005.0	2041.1	2088.3	2149.5	2244.7	2321.9	2346.5	2479.5
60°	1997.6	2008.3	2031.7	2075.2	2137.2	2225.0	2345.3	2491.0	2632.1	2679.4	2804.2
62.5°	1904.5	1916.8	1951.3	2003.3	2084.2	2214.4	2387.9	2593.6	2803.3	2908.4	2971.2
63°	1874.9	1890.1	1915.9	1976.3	2058.4	2186.8	2371.6	2593.2	2810.7	2925.2	2974.5
65°	1736.2	1739.0	1777.6	1838.0	1930.3	2063.7	2250.1	2506.1	2747.5	2879.6	2845.6
67.5°	1494.0	1505.9	1538.3	1599.1	1688.9	1827.7	2030.0	2266.9	2479.1	2584.6	2432.3
70°	1207.1	1206.3	1246.5	1295.3	1374.6	1496.5	1673.8	1887.6	2055.9	2132.6	1877.8
72.5°	862.3	841.0	870.5	924.7	989.6	1086.8	1227.2	1393.4	1544.1	1610.6	1372.9
75°	392.8	387.1	413.3	467.1	532.7	619.4	734.7	878.3	1022.8	1100.8	874.7
77.5°	132.2	133.8	144.1	163.4	198.7	242.2	314.0	405.9	522.9	600.1	410.5
80°	88.7	91.1	94.4	97.3	101.4	107.9	123.5	147.4	183.5	222.1	129.7
82.5°	72.7	75.5	82.9	86.2	88.7	90.7	91.9	93.6	93.6	94.4	82.1
85°	52.1	57.1	66.9	73.1	75.5	77.2	79.2	81.7	78.0	74.7	63.6
87.5°	18.1	24.6	36.1	39.8	42.7	43.1	46.0	50.9	48.4	39.4	19.3
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	438.4	438.4	438.4	438.4	438.4	438.4	438.4	438.4	438.4
2.5°	440.4	440.0	440.4	440.8	440.8	440.8	441.2	441.7	441.7
5°	448.6	449.0	448.6	449.0	449.0	449.5	449.5	450.2	450.2
7.5°	462.5	463.4	463.0	463.8	463.8	464.6	464.2	465.4	465.4
10°	481.4	482.3	483.1	483.5	483.1	483.9	484.7	485.2	484.7
12.5°	502.8	503.2	502.8	503.6	503.6	504.4	504.4	505.7	505.7
15°	522.5	522.1	521.7	522.9	523.7	524.2	524.9	526.2	524.9
17.5°	540.1	540.5	539.8	541.0	542.6	543.8	544.7	546.3	545.9
20°	557.8	557.0	557.8	559.9	561.5	563.1	564.8	567.2	566.8
22.5°	575.0	575.9	577.9	579.5	582.4	584.9	586.9	590.2	591.4
25°	599.2	599.2	602.5	604.6	608.7	611.9	616.5	620.2	622.3
27.5°	630.0	630.0	633.7	638.2	644.4	650.2	655.1	660.0	659.2
30°	671.9	673.9	677.2	683.0	691.2	698.2	704.7	709.7	710.0
32.5°	726.9	729.4	739.2	754.0	771.2	784.4	794.2	806.1	807.8
35°	851.6	857.8	870.5	882.5	889.4	897.2	902.2	902.6	903.4
37.5°	983.0	972.4	962.5	953.5	949.4	948.5	948.5	950.2	951.0
40°	1031.0	1025.7	1021.2	1015.4	1017.1	1016.6	1019.5	1022.0	1023.7
42.5°	1113.1	1109.0	1104.9	1097.5	1101.6	1100.4	1104.5	1108.2	1110.2
45°	1227.7	1214.9	1205.9	1194.0	1198.1	1195.6	1195.6	1200.1	1201.0
47.5°	1354.0	1339.3	1320.8	1306.0	1301.1	1296.6	1300.7	1300.7	1296.2
50°	1505.5	1487.9	1466.1	1442.3	1434.1	1429.6	1431.2	1433.3	1420.6
52.5°	1711.1	1691.5	1660.6	1624.6	1616.8	1613.0	1612.2	1609.3	1606.1
55°	1989.8	1952.9	1915.1	1867.5	1853.2	1849.0	1849.4	1846.1	1853.9
57.5°	2318.6	2264.4	2177.4	2119.5	2085.1	2071.9	2060.0	2055.1	2055.5
60°	2644.1	2533.7	2403.5	2302.6	2230.3	2184.4	2148.2	2128.1	2122.4
62.5°	2853.8	2680.2	2484.8	2321.0	2202.4	2126.5	2069.5	2033.3	2021.8
63°	2870.2	2686.3	2477.4	2301.8	2177.0	2097.4	2037.4	2000.1	1987.8
65°	2834.5	2624.3	2381.0	2171.6	2035.0	1946.7	1881.9	1846.6	1837.1
67.5°	2557.1	2382.2	2134.3	1918.0	1780.1	1690.6	1616.3	1582.7	1572.0
70°	2080.1	1960.3	1757.1	1572.4	1444.0	1357.7	1282.6	1254.7	1254.3
72.5°	1542.1	1386.5	1265.4	1129.9	1017.9	949.4	884.1	852.9	837.3
75°	1019.9	853.3	717.8	603.8	492.1	430.6	357.1	325.5	307.0
77.5°	513.9	380.9	272.9	189.2	146.9	120.7	110.4	105.1	104.6
80°	171.2	128.5	110.4	103.4	101.4	101.8	100.6	98.5	96.1
82.5°	94.8	99.7	100.6	97.7	97.7	96.1	94.4	86.6	82.5
85°	81.2	89.5	90.3	88.7	88.3	85.8	82.9	72.2	66.1
87.5°	50.9	58.7	57.5	51.3	56.6	52.9	50.1	32.4	23.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)