

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: P157375

Luminaire Tested: **VST-F07-LED-E-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157375
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-F07-LED-E-U-5MQ
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM
Light Source: (49) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18485.2 lumens
Efficiency: N/A
Efficacy: 102.4 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 180.5
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

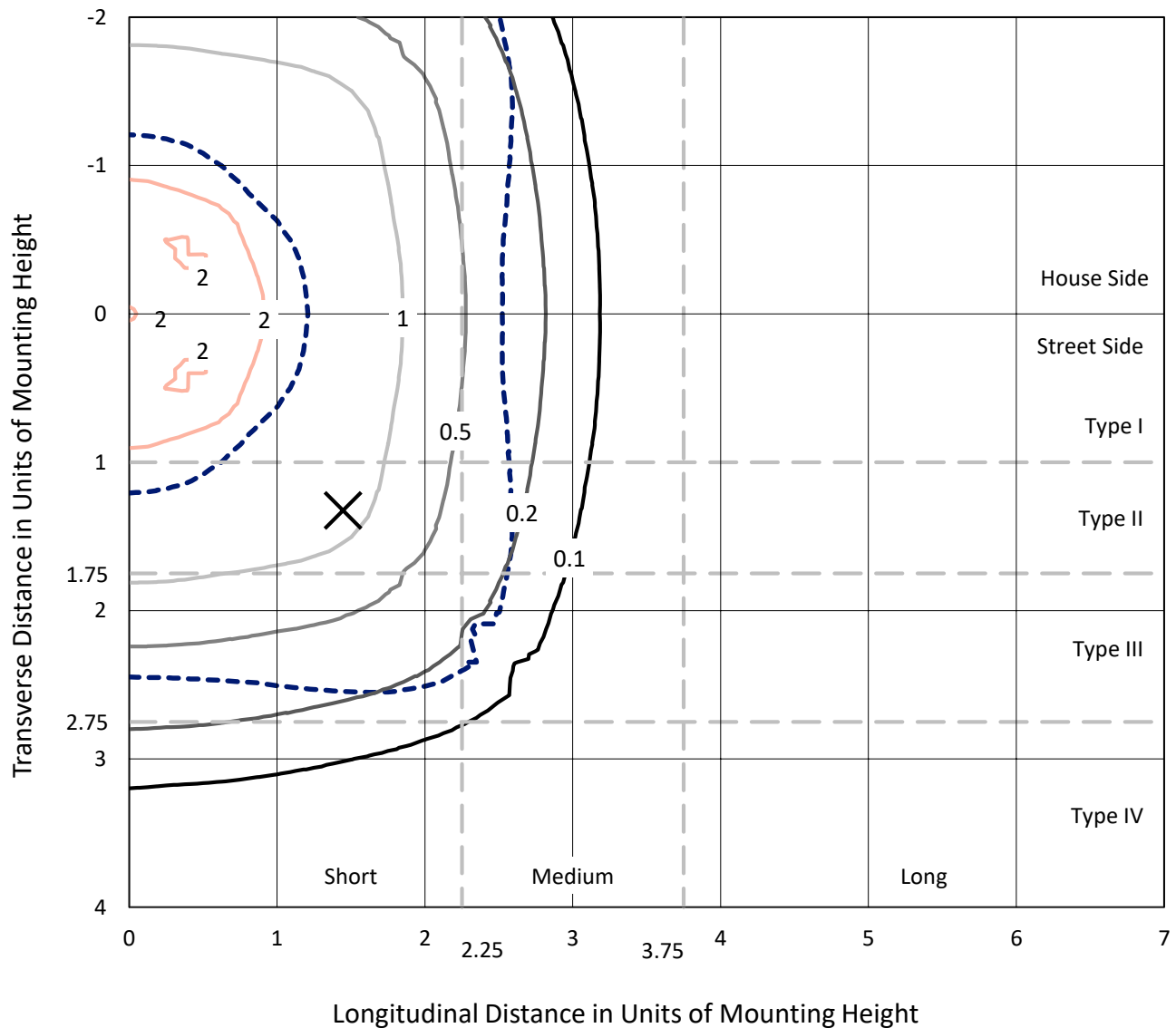


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

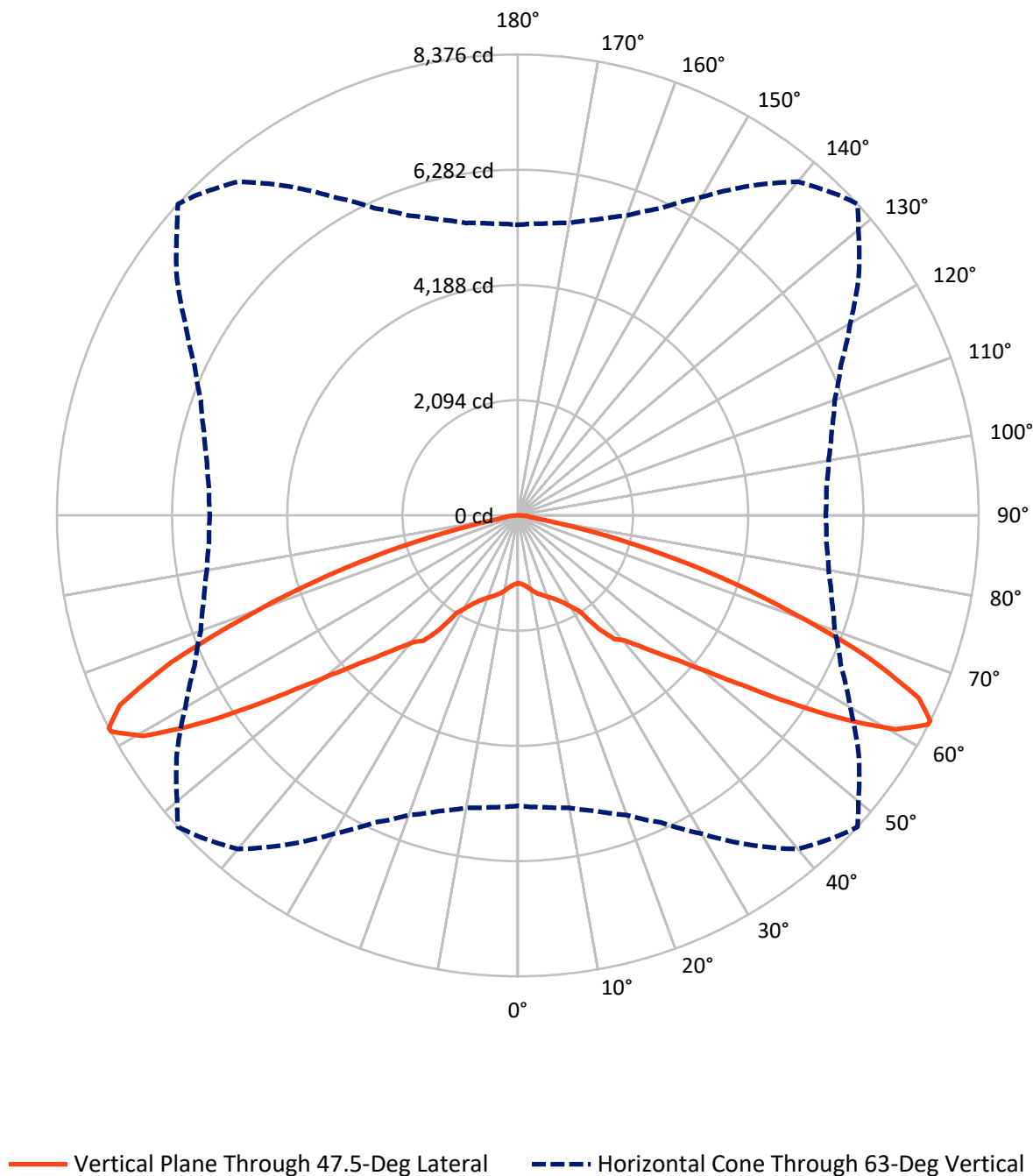


Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9242.6	0.0	9242.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9242.6	0.0	9242.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	18485.2	0.0	18485.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.9	0.7
10°-20°	421.2	2.3
20°-30°	805.8	4.4
30°-40°	1541.3	8.3
40°-50°	2667.0	14.4
50°-60°	4789.7	25.9
60°-70°	5824.4	31.5
70°-80°	2103.5	11.4
80°-90°	208.3	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°	18485.2	100.0
0°-180°	18485.2	100.0

Coefficient of Utilization



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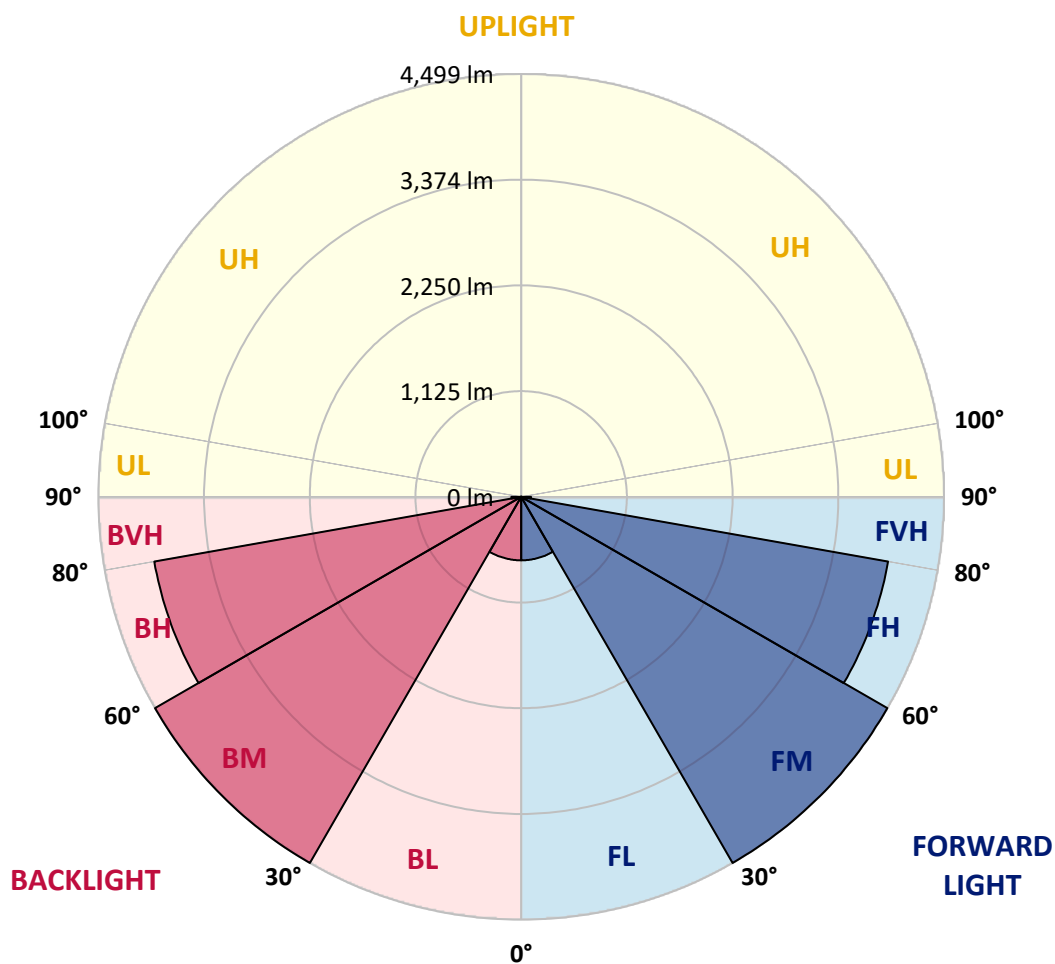
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	675.5	3.7			
FM	(30°-60°)	4499.0	24.3			
FH	(60°-80°)	3963.9	21.4			G2/5000
FVH	(80°-90°)	104.2	0.6			G2/225
BL	(0°-30°)	675.5	3.7	B2/1000		
BM	(30°-60°)	4499.0	24.3	B3/5000		
BH	(60°-80°)	3963.9	21.4	B4/5000		G2/5000
BVH	(80°-90°)	104.2	0.6			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1234.3	1234.3	1234.3	1234.3	1234.3	1234.3	1234.3	1234.3	1234.3	1234.3	1234.3
2.5°	1242.4	1240.1	1241.3	1242.4	1241.3	1240.1	1240.1	1240.1	1242.4	1240.1	1245.9
5°	1266.7	1264.4	1265.5	1265.5	1265.5	1263.2	1263.2	1263.2	1262.1	1263.2	1275.9
7.5°	1312.9	1309.4	1308.3	1310.6	1308.3	1307.1	1306.0	1306.0	1303.7	1303.7	1319.8
10°	1368.4	1363.8	1366.1	1367.2	1363.8	1361.5	1361.5	1361.5	1358.0	1356.8	1377.6
12.5°	1429.6	1427.3	1427.3	1425.0	1423.9	1421.6	1420.4	1421.6	1416.9	1416.9	1437.7
15°	1488.6	1484.0	1485.1	1481.7	1479.3	1477.0	1475.9	1474.7	1472.4	1472.4	1485.1
17.5°	1542.9	1539.4	1538.3	1534.8	1531.3	1527.9	1525.6	1524.4	1520.9	1520.9	1532.5
20°	1599.5	1596.1	1593.8	1588.0	1582.2	1578.7	1574.1	1571.8	1567.2	1568.3	1581.0
22.5°	1664.3	1658.5	1653.9	1649.2	1638.8	1631.9	1626.1	1621.5	1619.2	1619.2	1636.5
25°	1750.9	1747.5	1740.5	1725.5	1712.8	1702.4	1693.2	1688.5	1683.9	1681.6	1708.2
27.5°	1857.3	1853.8	1844.6	1829.5	1812.2	1794.9	1784.5	1776.4	1770.6	1767.1	1805.3
30°	1998.3	1992.5	1984.4	1960.1	1945.1	1918.5	1907.0	1895.4	1882.7	1886.2	1931.2
32.5°	2274.5	2266.4	2241.0	2214.4	2168.2	2132.3	2095.3	2067.6	2041.0	2037.6	2086.1
35°	2525.3	2521.8	2517.2	2498.7	2481.4	2459.4	2442.1	2413.2	2388.9	2383.1	2519.5
37.5°	2660.5	2668.6	2661.7	2659.3	2659.3	2669.7	2702.1	2734.5	2757.6	2771.5	2847.7
40°	2867.4	2867.4	2859.3	2854.7	2845.4	2859.3	2873.2	2897.4	2907.8	2909.0	2986.4
42.5°	3102.0	3103.1	3095.1	3081.2	3076.6	3089.3	3107.8	3130.9	3144.8	3148.2	3238.4
45°	3363.2	3359.7	3352.8	3348.2	3351.6	3363.2	3385.1	3430.2	3451.0	3467.2	3565.4
47.5°	3646.3	3669.5	3649.8	3653.3	3653.3	3689.1	3738.8	3775.8	3809.3	3840.5	3944.5
50°	4017.3	4020.8	4024.3	4034.7	4041.6	4089.0	4151.4	4195.3	4243.9	4284.3	4454.2
52.5°	4513.1	4506.2	4523.5	4535.1	4574.4	4599.8	4703.8	4759.3	4826.3	4878.4	5126.8
55°	5106.0	5102.6	5128.0	5137.2	5189.2	5251.7	5367.2	5488.6	5603.0	5666.6	6006.4
57.5°	5531.3	5540.6	5584.5	5645.8	5747.5	5880.4	6052.6	6320.7	6538.0	6607.3	6981.8
60°	5625.0	5655.0	5720.9	5843.4	6017.9	6265.2	6603.9	7014.2	7411.7	7544.6	7896.0
62.5°	5362.6	5397.3	5494.4	5641.1	5868.8	6235.2	6724.1	7303.1	7893.7	8189.5	8366.4
63°	5279.4	5322.2	5395.0	5564.9	5796.0	6157.8	6677.8	7301.9	7914.5	8236.9	8375.6
65°	4888.8	4896.8	5005.5	5175.4	5435.4	5811.0	6335.7	7056.9	7736.5	8108.6	8012.7
67.5°	4206.9	4240.4	4331.7	4502.7	4755.8	5146.5	5716.3	6383.1	6980.6	7277.7	6848.9
70°	3399.0	3396.7	3510.0	3647.5	3870.6	4213.8	4713.1	5315.2	5789.1	6005.2	5287.5
72.5°	2428.2	2368.1	2451.3	2603.9	2786.5	3060.4	3455.6	3923.7	4347.9	4535.1	3865.9
75°	1106.0	1089.9	1163.8	1315.2	1500.1	1744.0	2068.8	2473.3	2880.1	3099.7	2462.9
77.5°	372.1	376.8	405.7	460.0	559.4	681.9	884.1	1143.0	1472.4	1689.7	1155.7
80°	249.6	256.6	265.8	273.9	285.5	304.0	347.9	414.9	516.6	625.3	365.2
82.5°	204.6	212.7	233.5	242.7	249.6	255.4	258.9	263.5	263.5	265.8	231.1
85°	146.8	160.6	188.4	205.7	212.7	217.3	223.1	230.0	219.6	210.3	179.1
87.5°	50.9	69.3	101.7	112.1	120.2	121.4	129.4	143.3	136.4	111.0	54.3
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°	1234.3	1234.3	1234.3	1234.3	1234.3	1234.3	1234.3	1234.3	1234.3
2.5°	1240.1	1238.9	1240.1	1241.3	1241.3	1241.3	1242.4	1243.6	1243.6
5°	1263.2	1264.4	1263.2	1264.4	1264.4	1265.5	1265.5	1267.8	1267.8
7.5°	1302.5	1304.8	1303.7	1306.0	1306.0	1308.3	1307.1	1310.6	1310.6
10°	1355.7	1358.0	1360.3	1361.5	1360.3	1362.6	1364.9	1366.1	1364.9
12.5°	1415.8	1416.9	1415.8	1418.1	1418.1	1420.4	1420.4	1423.9	1423.9
15°	1471.3	1470.1	1468.9	1472.4	1474.7	1475.9	1478.2	1481.7	1478.2
17.5°	1520.9	1522.1	1519.8	1523.3	1527.9	1531.3	1533.7	1538.3	1537.1
20°	1570.6	1568.3	1570.6	1576.4	1581.0	1585.7	1590.3	1597.2	1596.1
22.5°	1619.2	1621.5	1627.3	1631.9	1640.0	1646.9	1652.7	1661.9	1665.4
25°	1687.4	1687.4	1696.6	1702.4	1714.0	1723.2	1735.9	1746.3	1752.1
27.5°	1774.1	1774.1	1784.5	1797.2	1814.5	1830.7	1844.6	1858.4	1856.1
30°	1891.9	1897.7	1907.0	1923.1	1946.3	1965.9	1984.4	1998.3	1999.4
32.5°	2046.8	2053.7	2081.5	2123.1	2171.6	2208.6	2236.3	2269.9	2274.5
35°	2398.1	2415.5	2451.3	2484.8	2504.5	2526.4	2540.3	2541.5	2543.8
37.5°	2768.0	2737.9	2710.2	2684.8	2673.2	2670.9	2670.9	2675.5	2677.8
40°	2903.2	2888.2	2875.5	2859.3	2863.9	2862.8	2870.8	2877.8	2882.4
42.5°	3134.4	3122.8	3111.2	3090.4	3102.0	3098.5	3110.1	3120.5	3126.3
45°	3456.8	3421.0	3395.5	3362.0	3373.6	3366.7	3366.7	3379.4	3381.7
47.5°	3812.8	3771.2	3719.2	3677.5	3663.7	3651.0	3662.5	3662.5	3649.8
50°	4239.2	4189.5	4128.3	4061.3	4038.1	4025.4	4030.0	4035.8	4000.0
52.5°	4818.3	4762.8	4676.1	4574.4	4552.4	4542.0	4539.7	4531.6	4522.4
55°	5603.0	5499.0	5392.7	5258.6	5218.1	5206.6	5207.7	5198.5	5220.5
57.5°	6528.7	6376.2	6131.2	5968.2	5871.1	5834.1	5800.6	5786.8	5787.9
60°	7445.2	7134.4	6768.0	6483.7	6280.3	6150.8	6049.1	5992.5	5976.3
62.5°	8035.8	7546.9	6996.8	6535.7	6201.7	5987.9	5827.2	5725.5	5693.2
63°	8082.1	7564.3	6976.0	6481.4	6130.0	5905.8	5737.1	5631.9	5597.2
65°	7981.5	7389.8	6704.4	6115.0	5730.1	5481.7	5299.0	5199.7	5173.1
67.5°	7200.2	6707.9	6009.8	5400.7	5012.4	4760.5	4551.3	4456.5	4426.5
70°	5857.3	5519.8	4947.7	4427.6	4065.9	3823.2	3611.7	3533.1	3531.9
72.5°	4342.1	3904.1	3563.1	3181.7	2866.2	2673.2	2489.5	2401.6	2357.7
75°	2872.0	2402.8	2021.4	1700.1	1385.7	1212.4	1005.5	916.5	864.5
77.5°	1447.0	1072.5	768.6	532.8	413.8	339.8	310.9	295.9	294.7
80°	481.9	361.7	310.9	291.2	285.5	286.6	283.2	277.4	270.4
82.5°	267.0	280.8	283.2	275.1	275.1	270.4	265.8	243.9	232.3
85°	228.8	252.0	254.3	249.6	248.5	241.5	233.5	203.4	186.1
87.5°	143.3	165.3	161.8	144.5	159.5	149.1	141.0	91.3	67.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)