

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: P147480

Luminaire Tested: **TMU-E05-LED-E-U-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P147480  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33674)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: TMU-E05-LED-E-U-5MQ  
Description: TALON MEDIUM LED AREA LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (105) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16118.9 lumens  
Efficiency: N/A  
Efficacy: 126.6 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B4 - U0 - G2

Input Watts (W): 127.3  
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

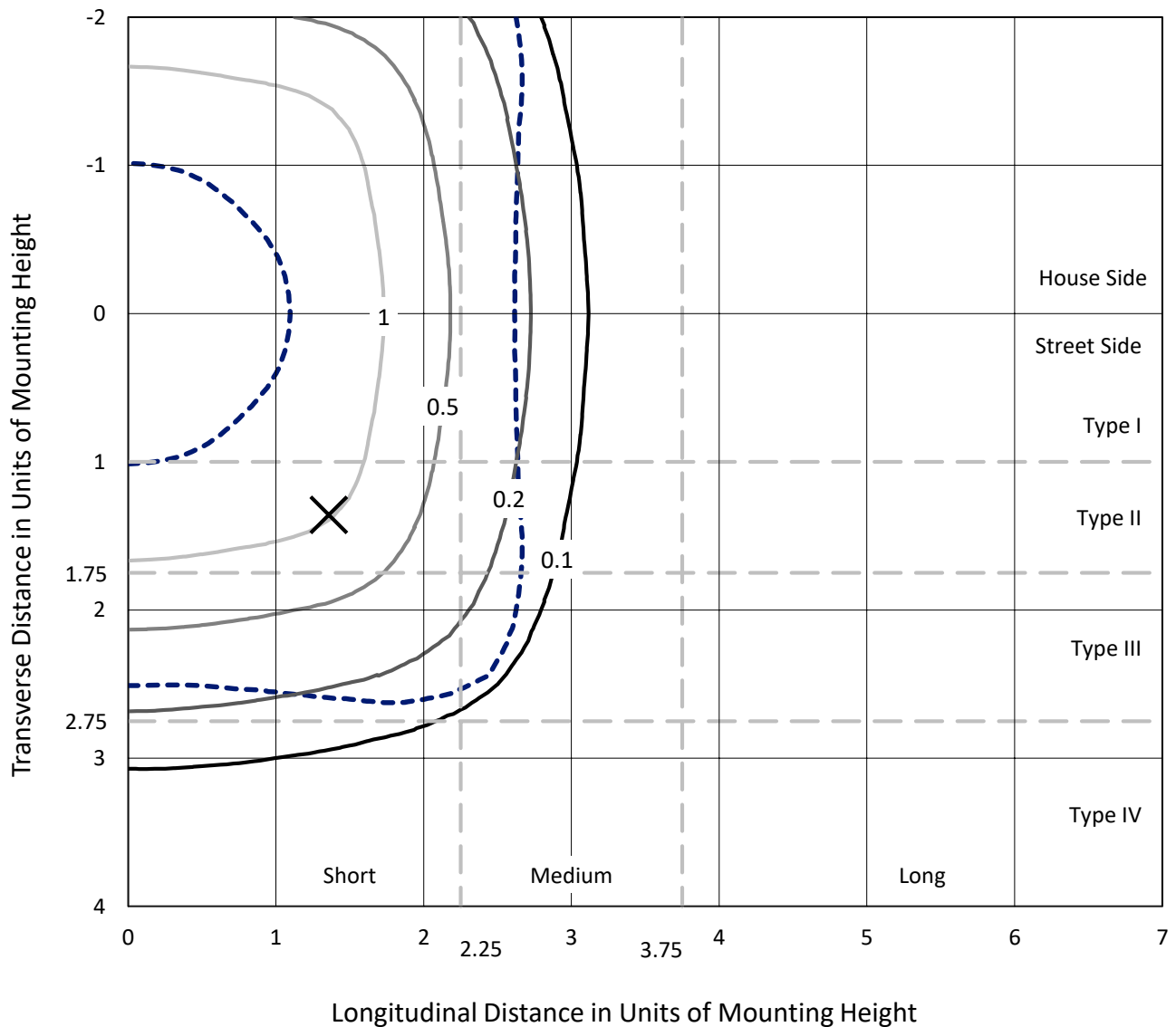


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

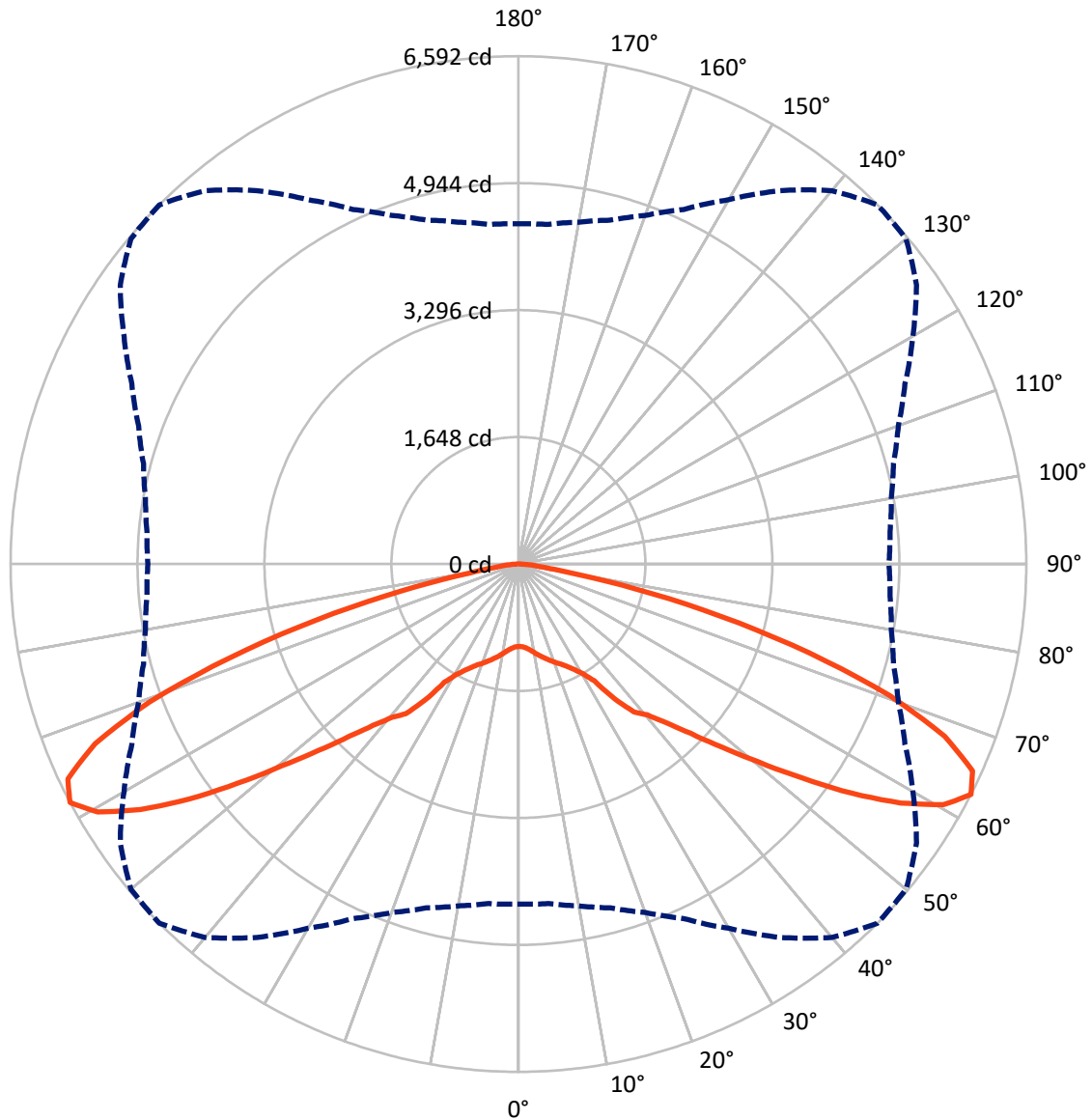


Based on 25 foot mounting height. Maximum calculated value = 1.9 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	8059.4	0.0	8059.4
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	8059.4	0.0	8059.4
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	16118.9	0.0	16118.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	107.2	0.7
10°-20°	362.5	2.2
20°-30°	700.8	4.3
30°-40°	1356.9	8.4
40°-50°	2450.1	15.2
50°-60°	4260.4	26.4
60°-70°	4836.6	30.0
70°-80°	1875.1	11.6
80°-90°	169.2	1.0
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°	16118.9	100.0
0°-180°	16118.9	100.0



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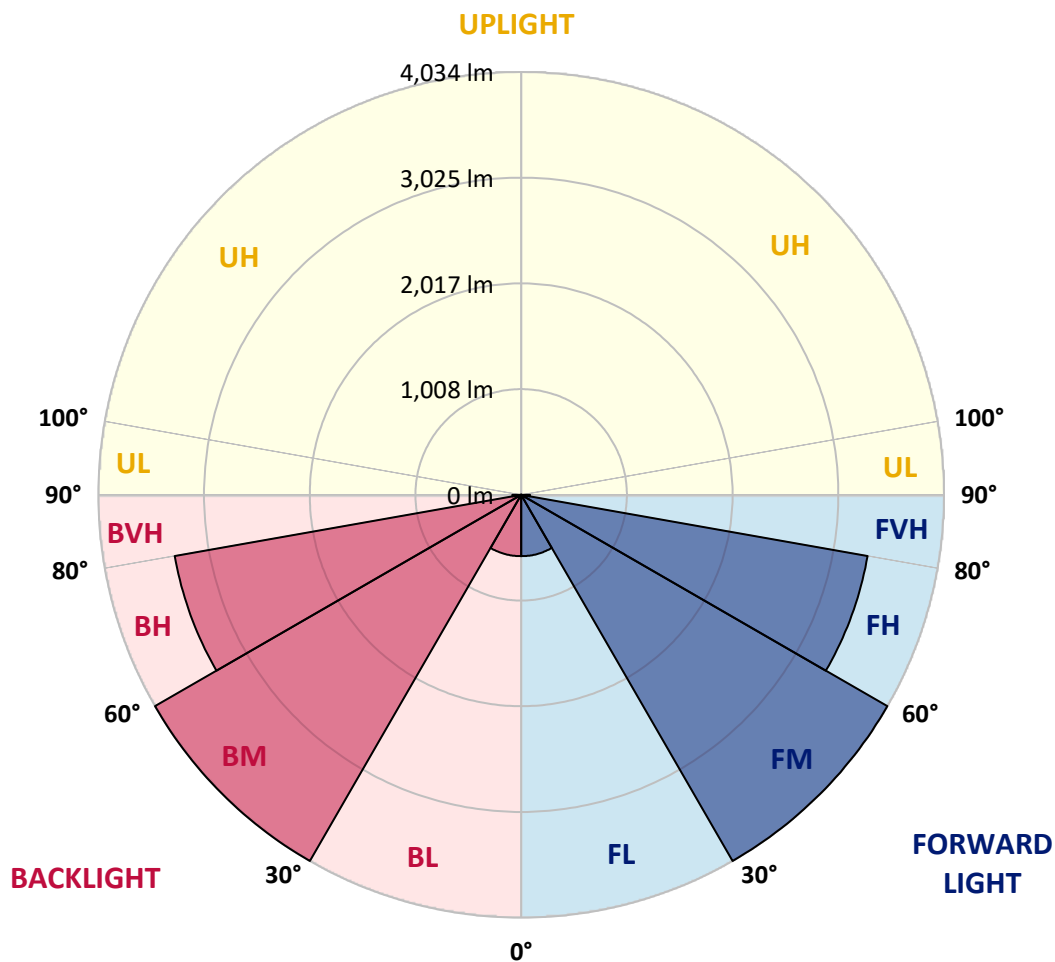
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	585.3	3.6			
FM	(30°-60°)	4033.7	25.0			
FH	(60°-80°)	3355.9	20.8			G2/5000
FVH	(80°-90°)	84.6	0.5			G1/100
BL	(0°-30°)	585.3	3.6	B2/1000		
BM	(30°-60°)	4033.7	25.0	B3/5000		
BH	(60°-80°)	3355.9	20.8	B4/5000		G2/5000
BVH	(80°-90°)	84.6	0.5			G1/100
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°	50°
0°	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0
2.5°	1076.6	1080.0	1079.2	1077.5	1077.5	1077.5	1076.6	1074.2	1073.3	1075.0	1076.6
5°	1101.6	1101.6	1101.6	1101.6	1100.0	1100.0	1098.4	1096.6	1097.5	1095.8	1095.0
7.5°	1140.0	1137.5	1137.5	1136.7	1136.6	1135.0	1132.5	1129.2	1130.0	1129.2	1128.4
10°	1185.0	1185.8	1183.4	1185.8	1181.7	1180.8	1177.5	1175.8	1175.0	1172.5	1172.5
12.5°	1239.2	1236.6	1236.6	1235.0	1233.4	1231.6	1226.6	1225.8	1222.5	1220.8	1218.3
15°	1290.0	1289.2	1285.8	1282.5	1281.7	1280.0	1274.2	1270.8	1270.0	1265.8	1262.5
17.5°	1340.8	1339.2	1335.0	1333.4	1330.0	1327.5	1322.5	1317.5	1315.0	1313.4	1309.2
20°	1395.0	1393.3	1389.2	1385.8	1381.6	1378.4	1370.8	1366.6	1364.2	1361.6	1358.4
22.5°	1462.5	1459.2	1452.5	1446.6	1437.5	1434.2	1424.2	1418.4	1414.2	1410.8	1409.2
25°	1535.8	1536.6	1527.5	1520.0	1509.2	1500.0	1487.5	1480.8	1476.6	1473.3	1472.5
27.5°	1627.5	1628.3	1620.0	1609.2	1592.5	1582.5	1565.8	1557.5	1555.0	1551.7	1550.8
30°	1772.5	1765.0	1750.8	1733.4	1718.3	1696.7	1672.5	1664.2	1655.8	1653.3	1653.4
32.5°	2039.2	2035.0	2023.4	1980.0	1960.0	1915.0	1872.5	1848.3	1820.8	1807.5	1799.2
35°	2225.8	2224.2	2215.0	2200.0	2187.5	2178.4	2153.4	2149.2	2144.2	2144.2	2150.8
37.5°	2363.3	2353.4	2351.7	2354.2	2350.8	2352.5	2372.5	2400.0	2423.3	2435.0	2433.4
40°	2566.7	2552.5	2560.8	2555.0	2547.5	2545.8	2552.5	2563.4	2574.2	2574.2	2571.7
42.5°	2832.5	2839.2	2842.5	2818.3	2802.5	2798.4	2814.2	2810.8	2821.6	2817.5	2806.7
45°	3227.5	3223.3	3217.5	3188.4	3163.4	3143.3	3147.5	3141.6	3142.5	3135.8	3127.5
47.5°	3625.8	3640.0	3615.8	3601.6	3573.3	3559.2	3570.8	3560.8	3580.0	3545.0	3528.4
50°	4012.5	4022.5	4014.2	3994.2	3994.2	4014.2	4028.4	4046.7	4073.4	4033.4	3973.4
52.5°	4329.2	4337.5	4350.0	4366.6	4407.5	4450.0	4510.0	4574.2	4625.0	4617.5	4549.2
55°	4522.5	4532.5	4553.4	4610.8	4684.2	4795.8	4931.7	5080.8	5197.5	5254.2	5204.2
57.5°	4587.5	4595.0	4651.6	4720.8	4835.0	5000.8	5228.4	5485.8	5710.0	5852.5	5830.0
60°	4572.5	4572.5	4630.0	4725.0	4885.0	5105.0	5426.7	5783.4	6126.6	6340.0	6308.3
62.5°	4415.0	4423.4	4505.8	4620.0	4813.4	5076.6	5460.0	5915.8	6326.7	6591.6	6565.8
65°	4070.0	4075.8	4165.0	4300.8	4516.7	4828.4	5247.5	5752.5	6223.4	6478.3	6430.0
67.5°	3512.5	3518.3	3590.8	3744.2	3972.5	4298.4	4750.8	5306.6	5767.5	5969.2	5824.2
70°	2794.2	2810.9	2857.5	3020.0	3193.4	3512.5	3929.2	4485.0	4920.0	5110.8	4950.8
72.5°	1904.2	1946.7	2003.3	2147.5	2313.4	2578.3	2910.0	3378.3	3727.5	3948.4	3805.8
75°	1072.5	1132.5	1150.0	1259.2	1395.8	1605.0	1847.5	2183.4	2535.9	2715.0	2543.4
77.5°	463.4	512.5	534.2	585.0	691.6	779.2	926.7	1153.4	1425.8	1551.6	1345.8
80°	228.4	240.0	249.2	265.0	295.0	323.4	393.3	492.5	604.2	632.5	503.3
82.5°	176.6	185.0	200.8	213.3	220.8	228.3	235.0	248.4	259.2	265.0	250.0
85°	124.2	135.0	152.5	166.7	175.0	180.8	186.7	190.9	180.9	165.0	173.4
87.5°	32.5	42.5	59.2	64.2	72.5	76.6	75.0	77.5	70.0	50.8	56.6
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°	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0	1070.0
2.5°	1075.8	1075.0	1075.8	1075.8	1075.8	1075.0	1075.0	1075.0
5°	1095.0	1095.0	1095.8	1094.2	1094.2	1095.0	1094.2	1093.3
7.5°	1127.5	1126.6	1126.7	1125.8	1126.6	1125.8	1125.8	1125.0
10°	1170.8	1169.2	1170.0	1167.5	1167.5	1166.6	1166.6	1166.7
12.5°	1217.5	1215.0	1215.8	1213.4	1209.2	1210.0	1210.8	1210.0
15°	1262.5	1260.0	1257.5	1255.8	1253.4	1254.2	1254.2	1253.3
17.5°	1308.4	1303.4	1302.5	1300.0	1299.2	1299.2	1299.2	1300.0
20°	1355.8	1352.5	1351.6	1349.2	1348.4	1350.8	1351.6	1350.0
22.5°	1406.6	1405.0	1406.6	1405.0	1407.5	1409.2	1410.0	1408.3
25°	1470.8	1469.2	1471.6	1477.5	1480.8	1482.5	1486.6	1485.0
27.5°	1553.4	1551.6	1557.5	1565.8	1570.8	1579.2	1583.3	1585.0
30°	1660.0	1667.5	1670.8	1687.5	1690.8	1704.2	1704.2	1710.0
32.5°	1815.0	1829.2	1854.2	1880.0	1915.8	1941.6	1941.6	1955.0
35°	2155.0	2160.8	2180.0	2184.2	2191.6	2200.0	2191.6	2198.3
37.5°	2415.8	2390.0	2371.6	2345.8	2330.0	2330.0	2331.6	2330.0
40°	2549.2	2539.2	2530.8	2509.2	2505.8	2505.0	2505.0	2508.3
42.5°	2787.5	2763.3	2750.0	2731.7	2725.8	2724.2	2723.4	2725.0
45°	3097.5	3058.3	3022.5	3004.1	2988.3	2973.4	2978.4	2978.3
47.5°	3458.4	3397.5	3339.2	3307.5	3280.0	3267.5	3259.2	3256.7
50°	3897.5	3812.5	3737.5	3678.3	3638.4	3637.5	3641.6	3615.0
52.5°	4435.8	4301.6	4208.4	4128.4	4090.8	4086.6	4073.4	4058.3
55°	5032.5	4873.4	4719.2	4633.4	4584.2	4557.5	4541.6	4516.7
57.5°	5647.5	5433.4	5211.6	5074.2	4987.5	4927.5	4895.8	4881.7
60°	6121.6	5829.2	5536.6	5315.8	5171.7	5082.5	5027.5	5005.0
62.5°	6308.4	5911.7	5536.6	5246.7	5038.4	4915.0	4840.8	4808.3
65°	6085.8	5615.8	5189.2	4869.2	4636.6	4499.2	4418.4	4383.3
67.5°	5464.2	5049.2	4585.0	4266.6	4027.5	3891.6	3804.2	3778.3
70°	4580.8	4156.7	3713.4	3429.2	3215.8	3105.0	3014.1	3003.3
72.5°	3442.5	3076.7	2696.6	2461.6	2290.0	2106.7	2060.0	2083.3
75°	2206.7	1864.2	1525.8	1314.2	1157.5	982.5	915.0	931.7
77.5°	1045.0	809.2	584.2	451.7	379.2	324.2	310.0	301.7
80°	387.5	314.2	277.5	263.4	253.3	244.2	237.5	230.0
82.5°	250.8	245.0	237.5	235.0	227.5	215.8	194.2	185.0
85°	187.5	187.5	177.5	178.3	172.5	157.5	137.5	126.7
87.5°	55.0	49.2	45.0	41.7	40.8	36.6	26.7	23.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)