

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: P319542

Luminaire Tested: **GAN-SA8D-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319542
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-20)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA8D-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48410 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

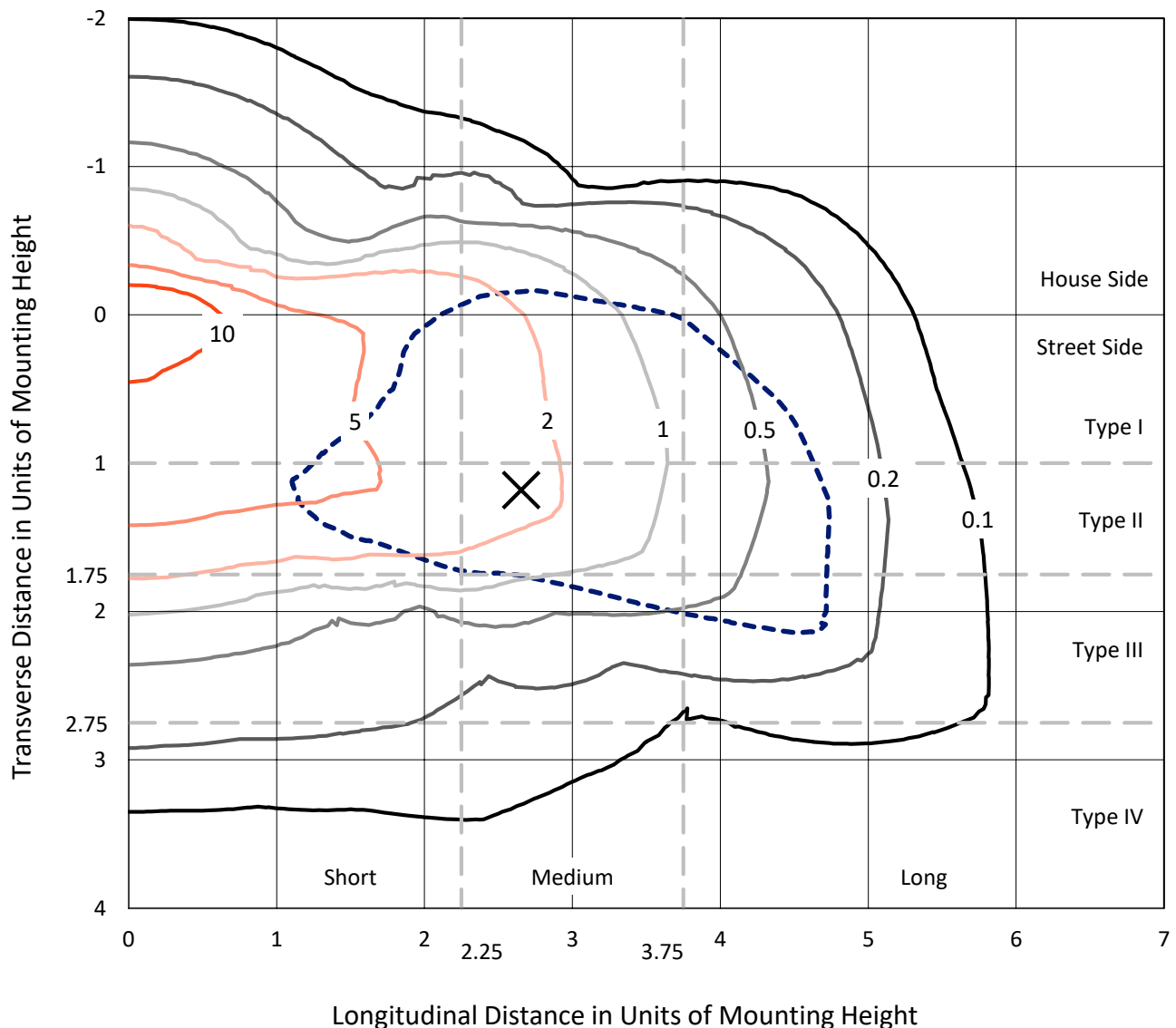
Input Watts (W): 511
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

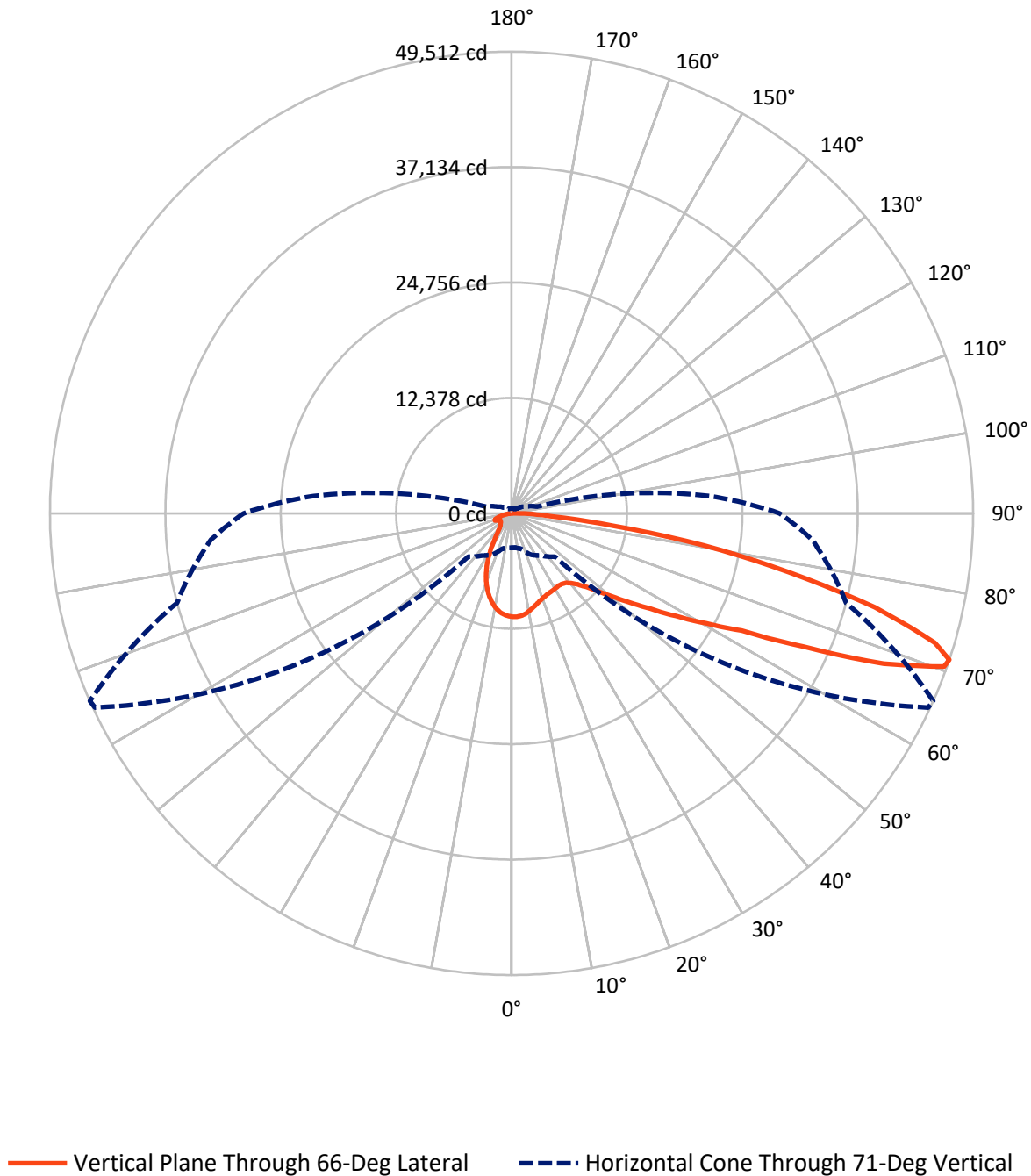
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 17.7 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8971.7	0.0	8971.7
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	39438.3	0.0	39438.3
	% Fixture	81.5	0.0	81.5
Total	Lumens	48410.0	0.0	48410.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	976.2	2.0
10°-20°	2341.3	4.8
20°-30°	3144.9	6.5
30°-40°	4137.1	8.5
40°-50°	6018.4	12.4
50°-60°	9401.3	19.4
60°-70°	11776.7	24.3
70°-80°	8983.0	18.6
80°-90°	1631.2	3.4
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°	48410.0	100.0
0°-180°	48410.0	100.0

Coefficient of Utilization



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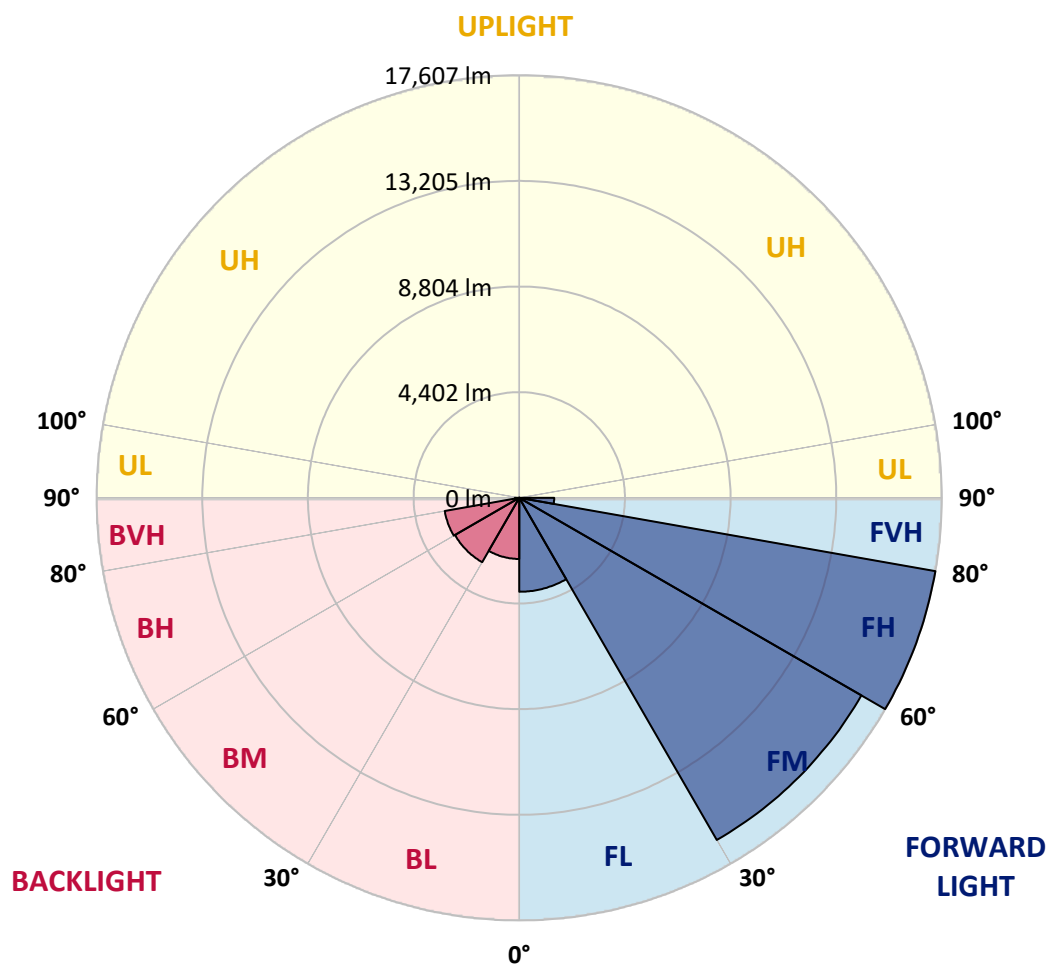
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3914.6	8.1			
FM	(30°-60°)	16461.8	34.0			
FH	(60°-80°)	17607.2	36.4			G5
FVH	(80°-90°)	1454.6	3.0			G5
BL	(0°-30°)	2547.7	5.3	B4/5000		
BM	(30°-60°)	3094.9	6.4	B3/5000		
BH	(60°-80°)	3152.4	6.5	B4/5000		G4/5000
BVH	(80°-90°)	176.6	0.4			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	11089.8	11089.8	11089.8	11089.8	11089.8	11089.8	11089.8	11089.8	11089.8	11089.8	11089.8
2.5°	10884.2	10867.5	10917.6	10969.5	10989.5	11022.9	11073.1	11101.5	11099.8	11104.8	11088.1
5°	10162.2	10140.4	10240.7	10322.6	10479.7	10656.9	10872.5	11026.3	11029.6	11116.5	11139.9
7.5°	9478.6	9463.5	9578.8	9710.9	9893.1	10163.8	10513.2	10844.1	10864.2	11099.8	11181.7
10°	8930.3	8927.0	9039.0	9182.7	9395.0	9697.5	10098.6	10583.4	10613.4	11019.6	11188.4
12.5°	8502.5	8509.1	8606.1	8769.9	8993.8	9309.7	9744.3	10290.9	10339.3	10892.6	11150.0
15°	8186.6	8213.3	8291.9	8457.3	8678.0	8998.9	9445.1	10020.1	10093.6	10750.5	11128.2
17.5°	8006.0	8036.1	8091.3	8228.3	8435.6	8744.8	9167.7	9797.8	9864.7	10641.9	11129.9
20°	7952.6	7977.6	8009.4	8093.0	8268.5	8549.3	8948.7	9597.2	9669.1	10554.9	11146.6
22.5°	8057.9	8076.2	8079.6	8072.9	8179.9	8408.9	8789.9	9450.1	9527.0	10498.1	11158.3
25°	8283.5	8308.6	8290.2	8228.3	8193.2	8333.6	8708.0	9353.2	9430.1	10456.3	11134.9
27.5°	8622.8	8626.1	8611.1	8530.9	8365.4	8342.0	8683.0	9296.4	9369.9	10407.9	11086.5
30°	9084.1	9105.8	9079.1	8970.4	8699.7	8475.7	8713.1	9241.2	9308.1	10346.0	11007.9
32.5°	9624.0	9677.5	9675.8	9562.1	9174.4	8774.9	8836.7	9207.8	9259.6	10280.8	10912.6
35°	10183.9	10257.4	10394.5	10346.0	9866.3	9247.9	9074.1	9261.3	9296.4	10272.5	10845.8
37.5°	10765.5	10839.1	11121.6	11251.9	10690.3	9924.8	9448.5	9450.1	9466.9	10374.4	10840.8
40°	11373.9	11452.5	11877.0	12216.3	11758.4	10782.3	10051.8	9844.6	9826.2	10625.1	10939.4
42.5°	12226.4	12296.6	12806.3	13239.2	12943.4	11880.4	10885.9	10453.0	10414.5	11116.5	11255.3
45°	13304.4	13364.6	13906.1	14369.1	14217.0	13133.9	11933.9	11290.4	11283.7	11935.5	11895.4
47.5°	14586.4	14633.2	15119.6	15567.5	15622.7	14576.4	13250.9	12582.4	12473.7	13058.7	12886.6
50°	15921.8	15973.6	16304.6	16786.0	17195.4	16506.8	14945.7	14165.2	14019.8	14541.3	14290.5
52.5°	16806.0	16874.5	17162.0	17772.1	18963.8	18622.8	16949.8	16084.0	15863.3	16338.0	16145.8
55°	16411.6	16565.3	17004.9	17982.7	20377.8	21855.3	19421.8	18322.0	18072.9	18467.4	18353.7
57.5°	14618.1	14828.7	15428.8	16938.1	20576.7	24703.4	23159.0	20957.8	20782.3	20668.6	20720.4
60°	11340.5	11542.7	12286.5	14253.8	19191.1	26782.6	28783.3	24207.0	23953.0	22878.2	22925.0
62.5°	8026.1	7924.1	8433.9	9873.0	15594.2	27026.7	35183.1	28552.7	27717.0	25211.5	25005.9
65°	6120.7	6097.3	6326.3	6784.2	9445.1	24106.7	38995.6	35856.7	34551.4	27956.0	27471.3
67.5°	5029.3	4987.5	5213.1	5880.0	6082.3	15552.5	39079.2	44330.8	43048.8	31372.3	30322.7
70°	4135.1	4088.3	4298.9	5159.6	5620.9	7887.4	32890.0	49293.2	49224.6	35697.9	32475.5
71°	3707.2	3673.8	3926.1	4882.2	5522.3	6573.6	28397.2	49306.5	49512.1	37162.1	32348.4
72.5°	3018.6	3030.3	3297.7	4345.7	5448.8	5804.8	20870.9	47008.4	47442.9	38557.7	31193.5
75°	2005.7	2015.7	2366.7	3342.8	5283.3	5679.4	11470.9	39445.2	40244.2	37722.0	28464.1
77.5°	1347.2	1343.8	1582.8	2293.2	4603.1	5679.4	6725.7	29502.0	30379.5	30015.1	21943.9
80°	927.6	920.9	1089.8	1582.8	3484.9	5748.0	5199.8	20675.3	20941.1	16209.3	8918.6
82.5°	568.3	573.3	712.0	1118.2	2371.7	5173.0	4908.9	11273.6	10984.5	4546.2	2228.0
85°	325.9	324.3	454.6	757.1	1522.7	4365.7	4786.9	4852.1	4451.0	1368.9	805.6
87.5°	117.0	125.4	244.0	419.5	872.5	3040.3	4061.5	2523.8	2274.8	618.4	364.4
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	11089.8	11089.8	11089.8	11089.8	11089.8	11089.8	11089.8	11089.8	11089.8	11089.8	11089.8
2.5°	11076.4	11086.5	11074.8	11007.9	10951.1	10859.1	10807.3	10735.5	10713.7	10703.7	10730.4
5°	11118.2	11121.6	11022.9	10847.4	10650.2	10417.9	10250.7	10045.2	9948.2	9906.4	9933.2
7.5°	11156.7	11141.6	10926.0	10590.0	10225.7	9821.2	9461.8	9132.6	8940.4	8861.8	8868.5
10°	11161.7	11098.2	10752.2	10232.4	9667.4	9074.1	8522.5	8014.4	7693.5	7484.6	7548.1
12.5°	11109.9	11002.9	10496.4	9769.4	8985.5	8176.5	7431.1	6668.9	6211.0	5998.7	6005.4
15°	11069.7	10875.9	10182.2	9224.5	8171.5	7100.1	6082.3	5186.4	4698.3	4481.0	4379.1
17.5°	11036.3	10738.8	9817.9	8611.1	7210.5	5851.6	4628.1	3829.2	3561.8	3498.3	3471.5
20°	10989.5	10593.4	9411.7	7900.7	6115.7	4454.3	3379.6	2985.1	2986.8	3060.3	3070.4
22.5°	10924.3	10427.9	8978.8	7103.5	4940.7	3244.2	2649.2	2535.5	2650.9	2791.3	2816.3
25°	10827.4	10232.4	8497.4	6222.7	3767.4	2493.7	2263.1	2258.1	2398.5	2545.6	2567.3
27.5°	10690.3	9976.6	7962.6	5276.6	2776.2	2119.3	2027.4	2062.5	2166.1	2273.1	2281.5
30°	10506.5	9679.1	7372.6	4278.8	2176.2	1887.0	1877.0	1908.7	1972.3	2047.5	2054.2
32.5°	10304.2	9376.6	6742.5	3312.7	1863.6	1761.7	1771.7	1786.7	1816.8	1846.9	1853.6
35°	10120.4	9067.4	6097.3	2517.1	1714.9	1679.8	1673.1	1669.7	1673.1	1663.1	1664.7
37.5°	10001.7	8811.7	5425.4	2004.0	1629.6	1607.9	1587.8	1562.8	1534.4	1517.6	1521.0
40°	9958.3	8621.1	4745.1	1731.6	1559.4	1544.4	1505.9	1452.5	1419.0	1409.0	1409.0
42.5°	10075.2	8522.5	4088.3	1594.5	1500.9	1475.9	1412.3	1350.5	1325.4	1323.8	1322.1
45°	10432.9	8562.6	3463.2	1519.3	1447.4	1399.0	1315.4	1263.6	1246.9	1250.2	1248.5
47.5°	11074.8	8815.0	2928.3	1469.2	1394.0	1330.4	1236.8	1195.1	1175.0	1175.0	1176.7
50°	12166.2	9405.0	2502.1	1427.4	1348.8	1266.9	1180.0	1128.2	1101.5	1099.8	1099.8
52.5°	13755.7	10461.3	2236.3	1392.3	1298.7	1210.1	1123.2	1058.0	1026.2	1019.6	1016.2
55°	15748.0	11975.6	2162.8	1368.9	1231.8	1148.3	1054.7	989.5	954.4	939.3	937.7
57.5°	17976.0	13817.5	2308.2	1340.5	1163.3	1074.7	979.4	917.6	880.8	862.4	860.8
60°	20230.7	15828.2	2901.6	1300.4	1106.5	994.5	902.6	845.7	809.0	788.9	785.6
62.5°	22488.8	17947.6	4113.3	1297.0	1066.4	917.6	824.0	775.5	740.4	718.7	713.7
65°	25036.0	20267.5	5490.6	1385.6	1053.0	847.4	743.8	705.3	675.2	655.2	653.5
67.5°	27961.0	22886.6	5358.5	1567.8	1098.1	783.9	668.6	638.5	616.7	600.0	598.4
70°	29333.2	22477.1	3331.1	1696.5	1161.6	722.0	596.7	575.0	558.3	546.6	541.5
71°	28758.3	21342.2	2792.9	1681.4	1154.9	695.3	568.3	551.6	534.9	524.8	519.8
72.5°	27190.5	19463.5	2329.9	1564.4	1079.7	646.8	531.5	514.8	499.8	488.1	484.7
75°	24399.2	17382.6	1865.3	1250.2	860.8	546.6	466.3	447.9	436.2	429.6	422.9
77.5°	17935.9	12405.2	1442.4	987.8	633.5	446.3	397.8	384.4	372.7	362.7	357.7
80°	6871.2	4805.3	971.1	737.1	464.7	352.7	320.9	314.2	302.5	295.8	295.8
82.5°	1850.2	1435.7	518.1	446.3	310.9	257.4	245.7	242.4	232.3	219.0	220.6
85°	748.8	633.5	290.8	245.7	190.5	152.1	165.5	167.1	155.4	138.7	140.4
87.5°	329.3	269.1	162.1	108.6	83.6	58.5	75.2	75.2	68.5	56.8	51.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)