

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: P319503

Luminaire Tested: **GAN-SA9D-827-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319503
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-SA9D-827-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 2700K, 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: 49953 lumens
Efficiency: N/A
Efficacy: 86.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

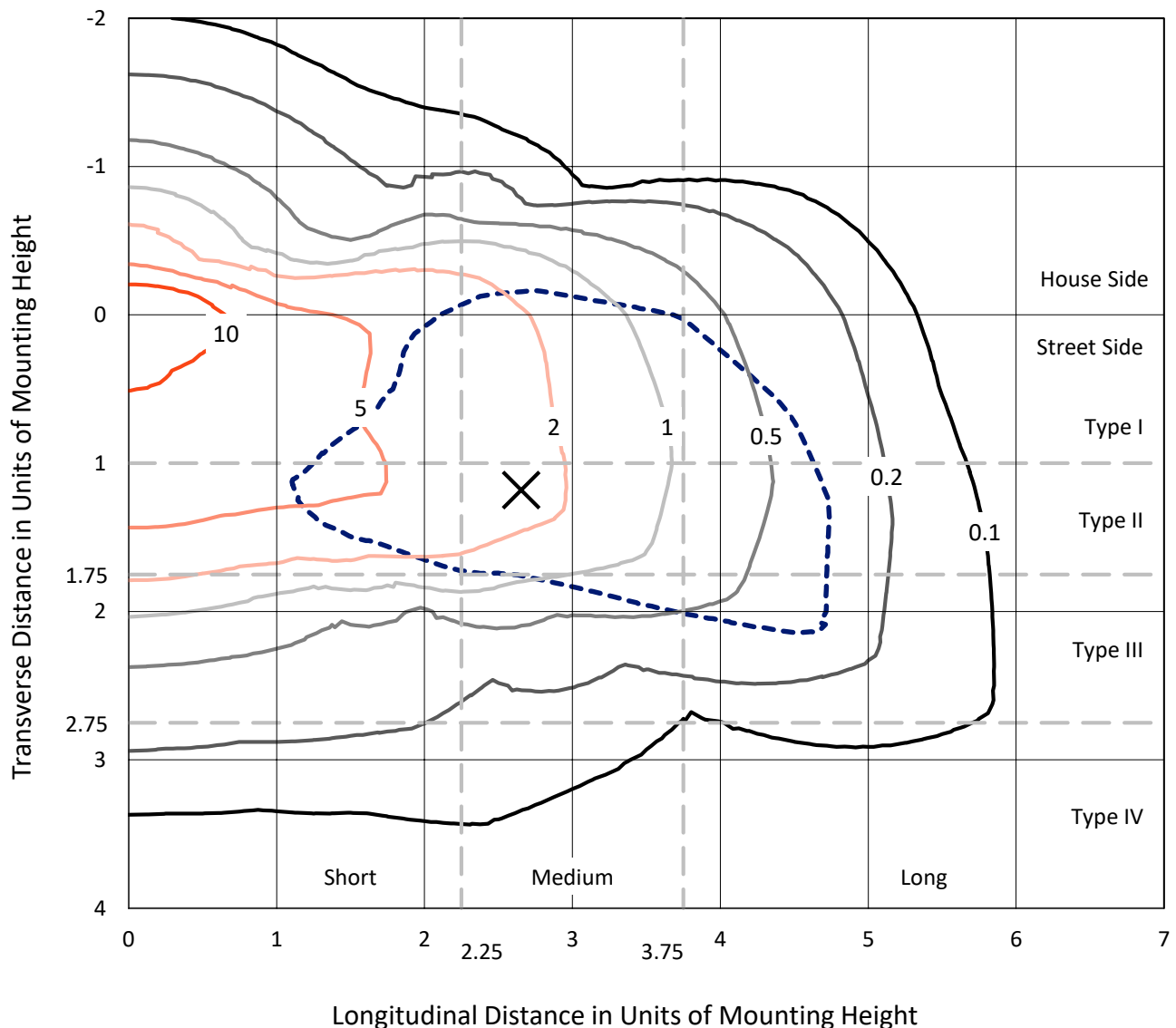
Input Watts (W): 575
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

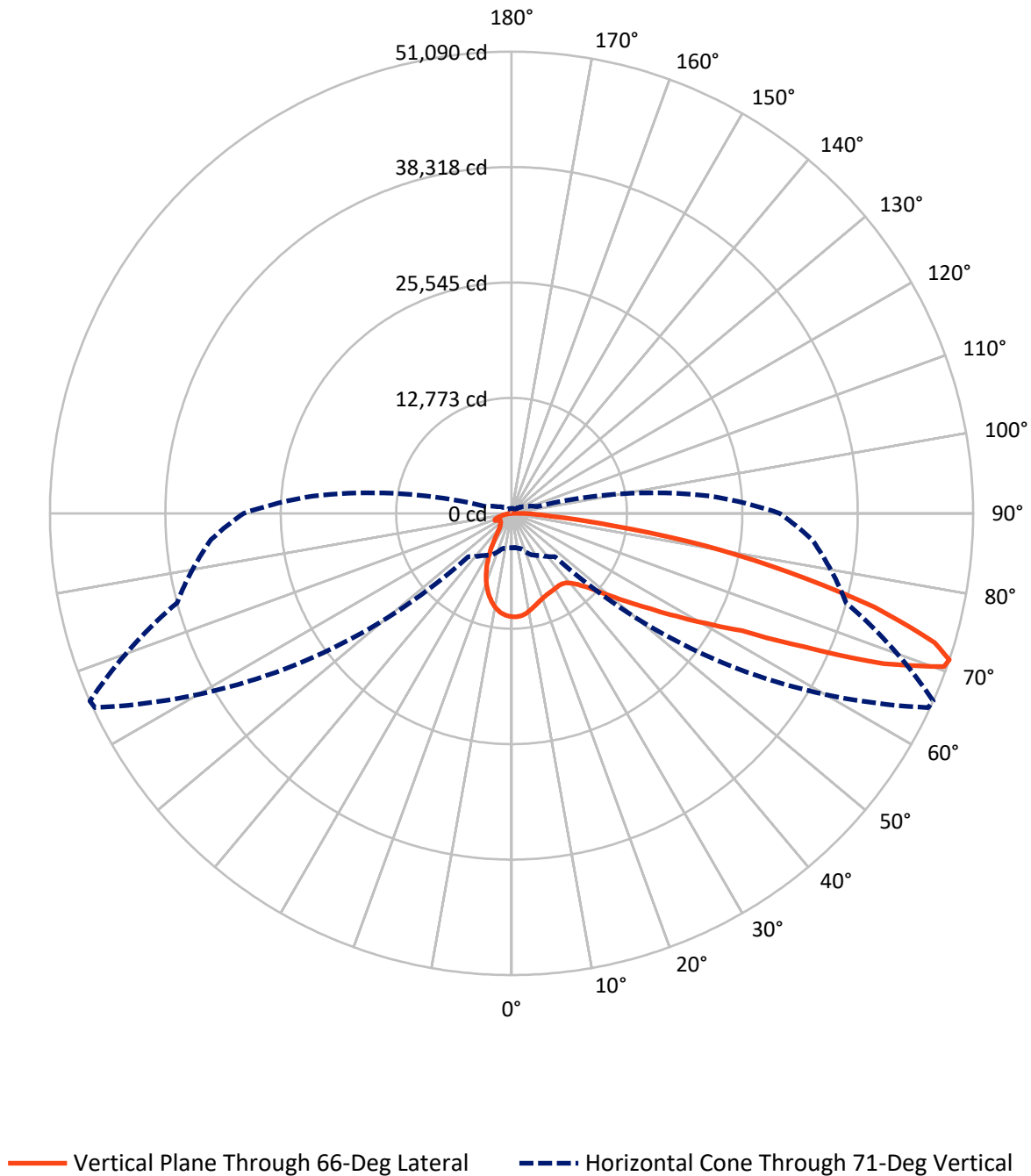
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18.3 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	9257.7	0.0	9257.7
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	40695.4	0.0	40695.4
	% Fixture	81.5	0.0	81.5
Total	Lumens	49953.0	0.0	49953.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1007.3	2.0
10°-20°	2415.9	4.8
20°-30°	3245.2	6.5
30°-40°	4268.9	8.5
40°-50°	6210.2	12.4
50°-60°	9701.0	19.4
60°-70°	12152.1	24.3
70°-80°	9269.3	18.6
80°-90°	1683.2	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°	49953.0	100.0
0°-180°	49953.0	100.0

Coefficient of Utilization



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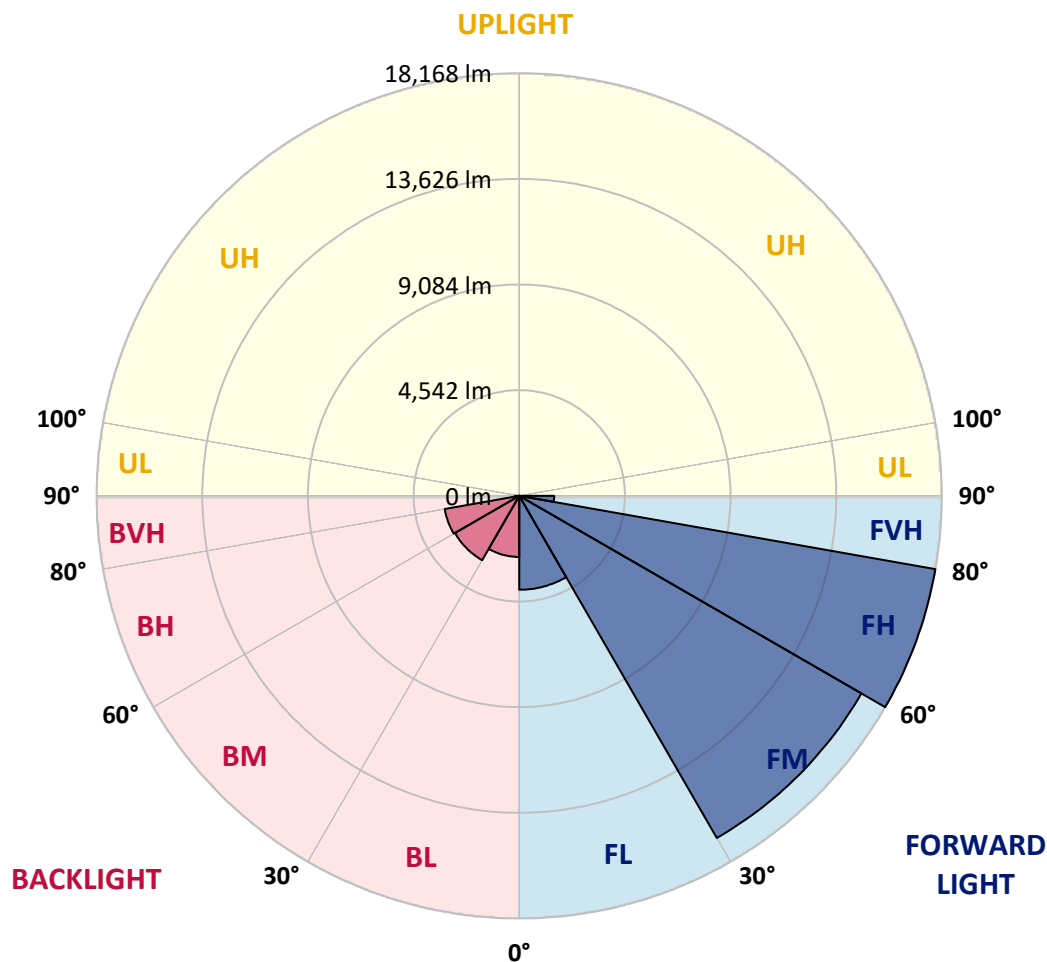
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4039.4	8.1			
FM	(30°-60°)	16986.5	34.0			
FH	(60°-80°)	18168.4	36.4			G5
FVH	(80°-90°)	1501.0	3.0			G5
BL	(0°-30°)	2628.9	5.3	B4/5000		
BM	(30°-60°)	3193.6	6.4	B3/5000		
BH	(60°-80°)	3252.9	6.5	B4/5000		G4/5000
BVH	(80°-90°)	182.2	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°	11443.3	11443.3	11443.3	11443.3	11443.3	11443.3	11443.3	11443.3	11443.3	11443.3	11443.3
2.5°	11231.1	11213.9	11265.6	11319.1	11339.8	11374.3	11426.0	11455.3	11453.6	11458.8	11441.5
5°	10486.1	10463.6	10567.1	10651.6	10813.8	10996.6	11219.1	11377.7	11381.2	11470.9	11495.0
7.5°	9780.7	9765.1	9884.2	10020.4	10208.4	10487.8	10848.2	11189.7	11210.4	11453.6	11538.1
10°	9215.0	9211.5	9327.1	9475.4	9694.4	10006.6	10420.5	10920.7	10951.7	11370.8	11545.0
12.5°	8773.5	8780.4	8880.4	9049.4	9280.5	9606.5	10054.9	10618.9	10668.9	11239.8	11505.4
15°	8447.5	8475.1	8556.1	8726.9	8954.5	9285.7	9746.2	10339.5	10415.4	11093.2	11482.9
17.5°	8261.2	8292.3	8349.2	8490.6	8704.5	9023.5	9459.9	10110.1	10179.1	10981.1	11484.7
20°	8206.0	8231.9	8264.7	8350.9	8532.0	8821.7	9233.9	9903.1	9977.3	10891.4	11501.9
22.5°	8314.7	8333.7	8337.1	8330.2	8440.6	8676.9	9070.1	9751.4	9830.7	10832.7	11514.0
25°	8547.5	8573.4	8554.4	8490.6	8454.4	8599.3	8985.6	9651.3	9730.7	10789.6	11489.8
27.5°	8897.6	8901.1	8885.6	8802.8	8632.0	8607.9	8959.7	9592.7	9668.6	10739.6	11439.8
30°	9373.6	9396.1	9368.5	9256.4	8977.0	8745.9	8990.8	9535.8	9604.8	10675.8	11358.8
32.5°	9930.7	9985.9	9984.2	9866.9	9466.8	9054.6	9118.4	9501.3	9554.7	10608.5	11260.4
35°	10508.5	10584.4	10725.8	10675.8	10180.8	9542.7	9363.3	9556.5	9592.7	10599.9	11191.5
37.5°	11108.7	11184.6	11476.0	11610.6	11031.1	10241.2	9749.6	9751.4	9768.6	10705.1	11186.3
40°	11736.5	11817.5	12255.6	12605.7	12133.1	11125.9	10372.2	10158.4	10139.4	10963.8	11288.0
42.5°	12616.0	12688.5	13214.5	13661.2	13355.9	12259.0	11232.9	10786.2	10746.5	11470.9	11614.0
45°	13728.5	13790.6	14349.4	14827.1	14670.1	13552.6	12314.2	11650.2	11643.3	12316.0	12274.6
47.5°	15051.3	15099.6	15601.5	16063.7	16120.6	15041.0	13673.3	12983.4	12871.3	13474.9	13297.3
50°	16429.3	16482.8	16824.3	17321.0	17743.5	17033.0	15422.1	14616.7	14466.6	15004.7	14746.0
52.5°	17341.7	17412.4	17709.0	18338.5	19568.2	19216.4	17490.0	16596.6	16369.0	16858.8	16660.4
55°	16934.7	17093.3	17546.9	18555.9	21027.3	22551.9	20040.8	18906.0	18649.0	19056.0	18938.7
57.5°	15084.1	15301.4	15920.5	17477.9	21232.6	25490.8	23897.2	21625.8	21444.7	21327.4	21380.9
60°	11702.0	11910.7	12678.1	14708.1	19802.8	27636.3	29700.7	24978.6	24716.4	23607.4	23655.7
62.5°	8281.9	8176.7	8702.7	10187.7	16091.3	27888.1	36304.6	29462.7	28600.4	26015.1	25803.0
65°	6315.8	6291.6	6527.9	7000.5	9746.2	24875.1	40238.6	36999.6	35652.6	28847.0	28346.9
67.5°	5189.6	5146.5	5379.3	6067.4	6276.1	16048.2	40324.8	45743.7	44420.9	32372.3	31289.2
70°	4266.9	4218.6	4435.9	5324.1	5800.1	8138.8	33938.3	50864.3	50793.6	36835.8	33510.6
71°	3825.3	3790.9	4051.3	5037.8	5698.3	6783.2	29302.3	50878.1	51090.3	38346.6	33379.5
72.5°	3114.8	3126.8	3402.8	4484.2	5622.5	5989.8	21536.1	48506.7	48955.1	39786.7	32187.7
75°	2069.6	2080.0	2442.1	3449.4	5451.7	5860.5	11836.5	40702.5	41526.9	38924.3	29371.3
77.5°	1390.1	1386.6	1633.3	2366.3	4749.8	5860.5	6940.1	30442.4	31347.8	30971.8	22643.4
80°	957.2	950.3	1124.5	1633.3	3596.0	5931.2	5365.5	21334.3	21608.5	16726.0	9202.9
82.5°	586.4	591.6	734.7	1153.8	2447.3	5337.9	5065.4	11633.0	11334.6	4691.1	2299.0
85°	336.3	334.6	469.1	781.3	1571.2	4504.9	4939.5	5006.8	4592.8	1412.5	831.3
87.5°	120.7	129.4	251.8	432.9	900.3	3137.2	4191.0	2604.3	2347.3	638.1	376.0
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°	11443.3	11443.3	11443.3	11443.3	11443.3	11443.3	11443.3	11443.3	11443.3	11443.3	11443.3
2.5°	11429.5	11439.8	11427.7	11358.8	11300.1	11205.3	11151.8	11077.6	11055.2	11044.9	11072.5
5°	11472.6	11476.0	11374.3	11193.2	10989.7	10749.9	10577.5	10365.3	10265.3	10222.2	10249.8
7.5°	11512.3	11496.7	11274.2	10927.6	10551.6	10134.2	9763.4	9423.7	9225.3	9144.3	9151.2
10°	11517.4	11451.9	11094.9	10558.5	9975.6	9363.3	8794.2	8269.9	7938.7	7723.1	7788.7
12.5°	11464.0	11353.6	10831.0	10080.8	9271.9	8437.1	7667.9	6881.5	6408.9	6189.9	6196.8
15°	11422.6	11222.5	10506.8	9518.5	8432.0	7326.4	6276.1	5351.7	4848.1	4623.9	4518.7
17.5°	11388.1	11081.1	10130.8	8885.6	7440.3	6038.1	4775.6	3951.2	3675.3	3609.8	3582.2
20°	11339.8	10931.0	9711.7	8152.6	6310.6	4596.3	3487.3	3080.3	3082.0	3157.9	3168.2
22.5°	11272.5	10760.3	9265.0	7329.9	5098.2	3347.6	2733.6	2616.3	2735.3	2880.2	2906.1
25°	11172.5	10558.5	8768.3	6421.0	3887.4	2573.2	2335.2	2330.0	2474.9	2626.7	2649.1
27.5°	11031.1	10294.6	8216.4	5444.8	2864.7	2186.9	2092.0	2128.3	2235.2	2345.6	2354.2
30°	10841.4	9987.6	7607.6	4415.2	2245.5	1947.2	1936.8	1969.6	2035.1	2112.7	2119.6
32.5°	10632.7	9675.5	6957.4	3418.3	1923.0	1817.8	1828.2	1843.7	1874.7	1905.8	1912.7
35°	10442.9	9356.4	6291.6	2597.4	1769.5	1733.3	1726.4	1723.0	1726.4	1716.1	1717.8
37.5°	10320.5	9092.5	5598.3	2067.9	1681.6	1659.1	1638.4	1612.6	1583.3	1566.0	1569.5
40°	10275.7	8895.9	4896.4	1786.8	1609.1	1593.6	1553.9	1498.7	1464.3	1453.9	1453.9
42.5°	10396.4	8794.2	4218.6	1645.3	1548.8	1522.9	1457.4	1393.5	1367.7	1365.9	1364.2
45°	10765.5	8835.5	3573.5	1567.7	1493.6	1443.6	1357.3	1303.9	1286.6	1290.1	1288.3
47.5°	11427.7	9096.0	3021.6	1516.0	1438.4	1372.8	1276.3	1233.1	1212.5	1212.5	1214.2
50°	12554.0	9704.8	2581.8	1472.9	1391.8	1307.3	1217.6	1164.2	1136.6	1134.8	1134.8
52.5°	14194.1	10794.8	2307.6	1436.7	1340.1	1248.7	1159.0	1091.7	1059.0	1052.1	1048.6
55°	16250.0	12357.3	2231.7	1412.5	1271.1	1184.9	1088.3	1021.0	984.8	969.3	967.5
57.5°	18549.0	14257.9	2381.8	1383.2	1200.4	1109.0	1010.7	946.9	908.9	889.9	888.2
60°	20875.6	16332.7	2994.0	1341.8	1141.7	1026.2	931.3	872.7	834.7	814.0	810.6
62.5°	23205.6	18519.6	4244.4	1338.4	1100.3	946.9	850.3	800.3	764.0	741.6	736.4
65°	25834.0	20913.5	5665.6	1429.8	1086.5	874.4	767.5	727.8	696.8	676.1	674.4
67.5°	28852.2	23616.1	5529.3	1617.8	1133.1	808.9	689.9	658.8	636.4	619.2	617.4
70°	30268.2	23193.5	3437.3	1750.6	1198.7	745.1	615.7	593.3	576.0	564.0	558.8
71°	29674.9	22022.5	2881.9	1735.0	1191.8	717.5	586.4	569.1	551.9	541.6	536.4
72.5°	28057.1	20083.9	2404.2	1614.3	1114.1	667.5	548.4	531.2	515.7	503.6	500.2
75°	25176.9	17936.7	1924.7	1290.1	888.2	564.0	481.2	462.2	450.1	443.2	436.3
77.5°	18507.6	12800.6	1488.4	1019.3	653.7	460.5	410.5	396.7	384.6	374.3	369.1
80°	7090.2	4958.5	1002.0	760.6	479.5	363.9	331.1	324.2	312.2	305.3	305.3
82.5°	1909.2	1481.5	534.7	460.5	320.8	265.6	253.5	250.1	239.7	225.9	227.7
85°	772.7	653.7	300.1	253.5	196.6	156.9	170.7	172.5	160.4	143.1	144.9
87.5°	339.8	277.7	167.3	112.1	86.2	60.4	77.6	77.6	70.7	58.6	53.5
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)