

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: P319524

Luminaire Tested: **GAN-SA0B-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319524
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-SA0B-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 800mA 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: 44032 lumens
Efficiency: N/A
Efficacy: 105.1 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): 419
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

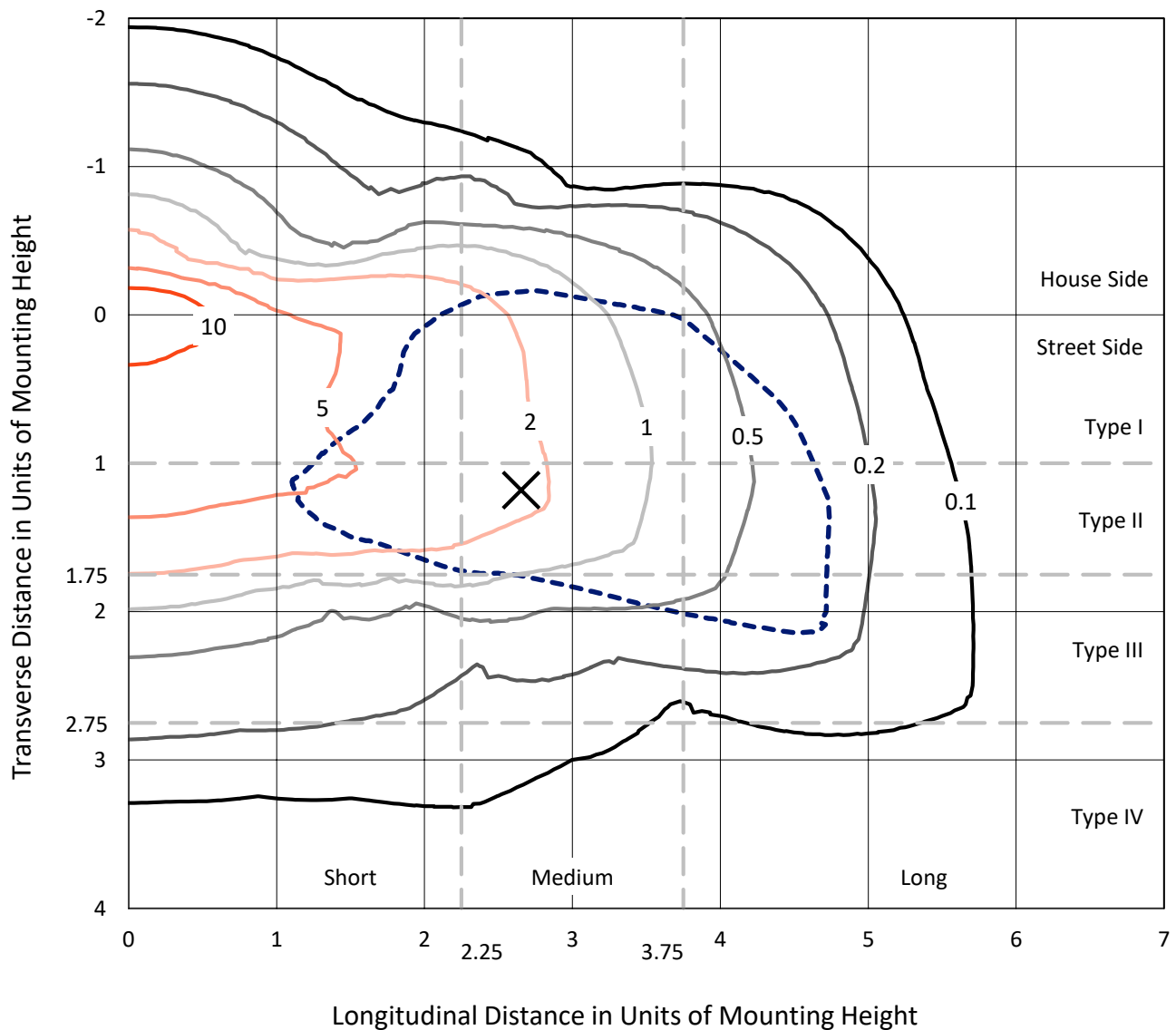


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Iso-Footcandle Lines of Horizontal Illumination

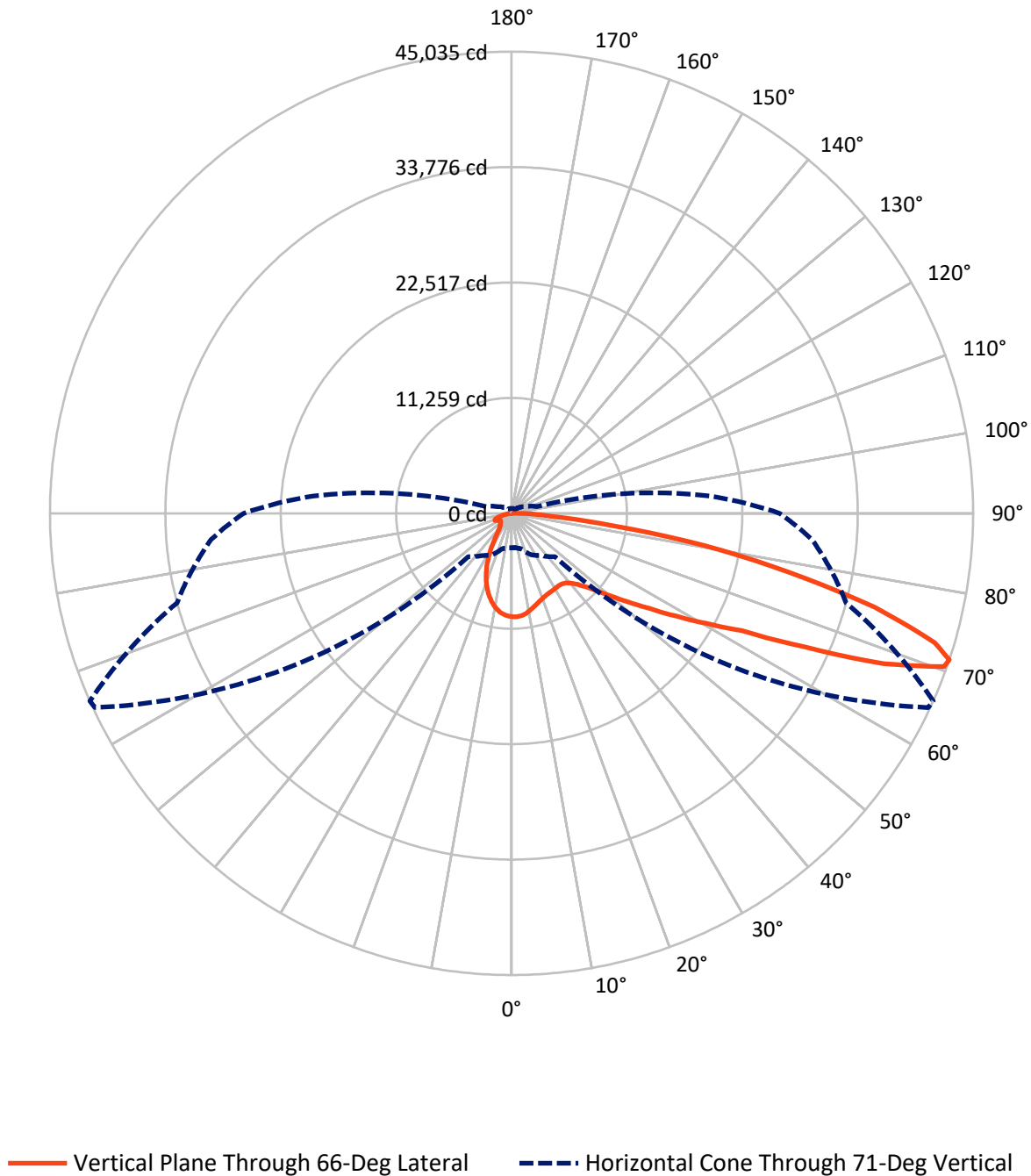
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.1 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	8160.3	0.0	8160.3
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	35871.7	0.0	35871.7
	% Fixture	81.5	0.0	81.5
Total	Lumens	44032.0	0.0	44032.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	887.9	2.0
10°-20°	2129.5	4.8
20°-30°	2860.5	6.5
30°-40°	3762.9	8.5
40°-50°	5474.1	12.4
50°-60°	8551.1	19.4
60°-70°	10711.7	24.3
70°-80°	8170.6	18.6
80°-90°	1483.7	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°	44032.0	100.0
0°-180°	44032.0	100.0

Coefficient of Utilization



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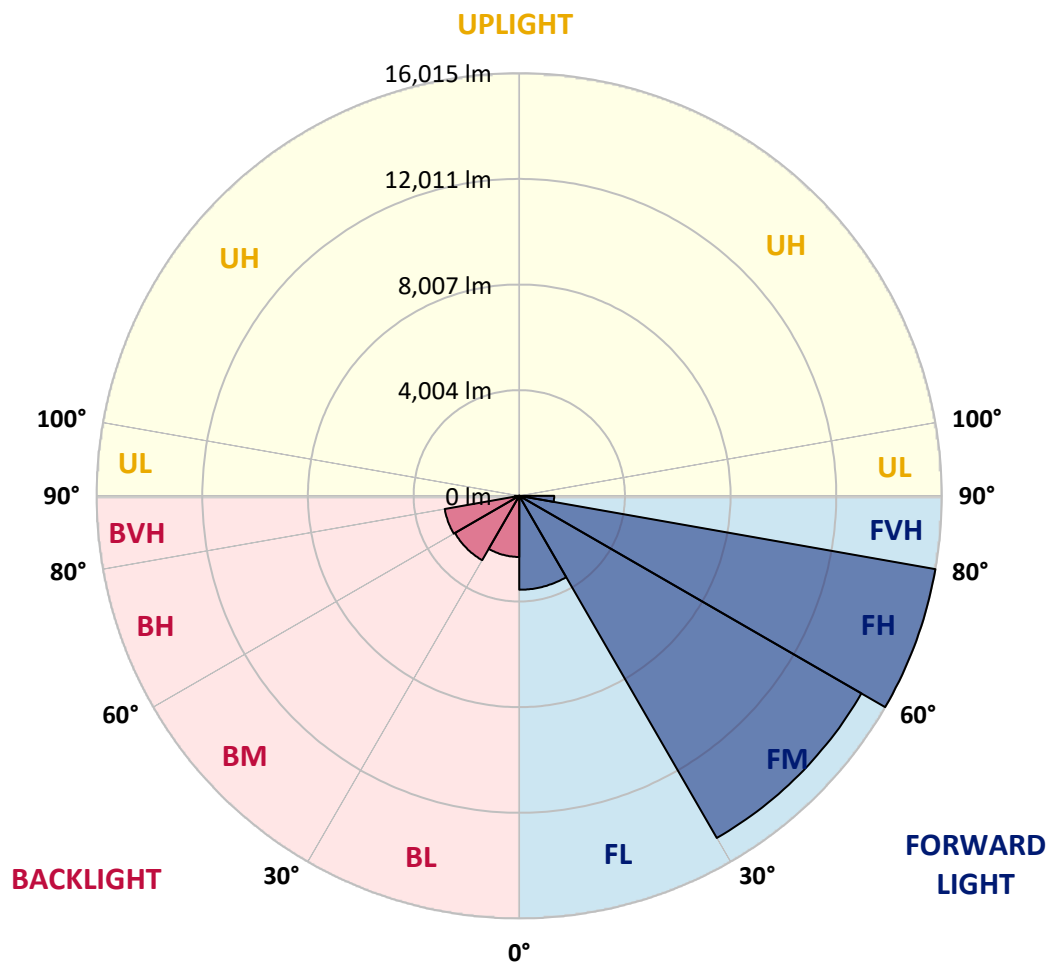
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3560.6	8.1			
FM	(30°-60°)	14973.1	34.0			
FH	(60°-80°)	16014.9	36.4			G5
FVH	(80°-90°)	1323.1	3.0			G5
BL	(0°-30°)	2317.3	5.3	B3/2500		
BM	(30°-60°)	2815.1	6.4	B3/5000		
BH	(60°-80°)	2867.4	6.5	B4/5000		G4/5000
BVH	(80°-90°)	160.6	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°	10086.9	10086.9	10086.9	10086.9	10086.9	10086.9	10086.9	10086.9	10086.9	10086.9	10086.9
2.5°	9899.9	9884.7	9930.3	9977.4	9995.7	10026.1	10071.7	10097.5	10096.0	10100.6	10085.4
5°	9243.1	9223.4	9314.6	9389.1	9532.0	9693.1	9889.2	10029.1	10032.1	10111.2	10132.5
7.5°	8621.4	8607.7	8712.6	8832.7	8998.4	9244.7	9562.4	9863.4	9881.6	10096.0	10170.5
10°	8122.7	8119.7	8221.5	8352.3	8545.3	8820.5	9185.4	9626.2	9653.6	10023.0	10176.6
12.5°	7733.5	7739.6	7827.8	7976.8	8180.5	8467.8	8863.1	9360.2	9404.3	9907.5	10141.6
15°	7446.2	7470.5	7542.0	7692.5	7893.2	8185.0	8590.9	9113.9	9180.8	9778.3	10121.8
17.5°	7282.0	7309.4	7359.5	7484.2	7672.7	7954.0	8338.6	8911.7	8972.5	9679.5	10123.4
20°	7233.4	7256.2	7285.1	7361.1	7520.7	7776.1	8139.4	8729.3	8794.7	9600.4	10138.6
22.5°	7329.1	7345.9	7348.9	7342.8	7440.1	7648.4	7995.0	8595.5	8665.4	9548.7	10149.2
25°	7534.4	7557.2	7540.5	7484.2	7452.3	7580.0	7920.5	8507.3	8577.3	9510.7	10127.9
27.5°	7843.0	7846.0	7832.3	7759.4	7608.9	7587.6	7897.7	8455.6	8522.5	9466.6	10083.8
30°	8262.6	8282.3	8258.0	8159.2	7912.9	7709.2	7925.1	8405.5	8466.3	9410.4	10012.4
32.5°	8753.6	8802.3	8800.7	8697.4	8344.7	7981.3	8037.6	8375.1	8422.2	9351.1	9925.7
35°	9262.9	9329.8	9454.5	9410.4	8974.1	8411.6	8253.5	8423.7	8455.6	9343.5	9864.9
37.5°	9791.9	9858.8	10115.8	10234.3	9723.5	9027.3	8594.0	8595.5	8610.7	9436.2	9860.4
40°	10345.3	10416.8	10802.9	11111.5	10695.0	9807.2	9142.8	8954.3	8937.6	9664.2	9950.1
42.5°	11120.7	11184.5	11648.2	12041.9	11772.8	10806.0	9901.4	9507.7	9472.7	10111.2	10237.4
45°	12101.2	12155.9	12648.5	13069.6	12931.3	11946.1	10854.6	10269.3	10263.2	10856.1	10819.6
47.5°	13267.2	13309.8	13752.2	14159.6	14209.8	13258.1	12052.6	11444.5	11345.6	11877.7	11721.2
50°	14481.9	14529.1	14830.1	15267.9	15640.4	15014.0	13594.1	12884.1	12751.9	13226.2	12998.2
52.5°	15286.1	15348.5	15610.0	16164.9	17248.8	16938.7	15416.9	14629.4	14428.7	14860.5	14685.6
55°	14927.4	15067.2	15467.1	16356.4	18534.9	19878.8	17665.3	16665.0	16438.5	16797.3	16693.9
57.5°	13296.1	13487.7	14033.5	15406.2	18715.8	22469.3	21064.6	19062.5	18902.8	18799.4	18846.6
60°	10314.9	10498.9	11175.4	12964.7	17455.5	24360.5	26180.3	22017.8	21786.7	20809.2	20851.8
62.5°	7300.3	7207.5	7671.2	8980.1	14184.0	24582.5	32001.3	25970.5	25210.4	22931.5	22744.5
65°	5567.2	5545.9	5754.2	6170.7	8590.9	21926.6	35469.0	32614.0	31426.7	25427.8	24986.9
67.5°	4574.4	4536.4	4741.7	5348.3	5532.2	14146.0	35545.0	40321.7	39155.6	28535.1	27580.4
70°	3761.1	3718.5	3910.1	4693.0	5112.6	7174.1	29915.5	44835.3	44773.0	32469.6	29538.5
71°	3371.9	3341.5	3571.1	4440.7	5022.9	5979.2	25829.1	44847.5	45034.5	33801.3	29423.0
72.5°	2745.6	2756.2	2999.5	3952.7	4956.0	5279.8	18983.4	42757.1	43152.4	35070.7	28372.5
75°	1824.3	1833.4	2152.7	3040.5	4805.5	5165.8	10433.5	35878.0	36604.7	34310.6	25889.9
77.5°	1225.3	1222.3	1439.7	2085.8	4186.8	5165.8	6117.5	26834.0	27632.1	27300.7	19959.4
80°	843.7	837.7	991.2	1439.7	3169.7	5228.2	4729.5	18805.5	19047.3	14743.4	8112.1
82.5°	516.9	521.4	647.6	1017.0	2157.2	4705.2	4465.0	10254.1	9991.1	4135.1	2026.5
85°	296.4	294.9	413.5	688.7	1385.0	3970.9	4354.0	4413.3	4048.4	1245.1	732.8
87.5°	106.4	114.0	222.0	381.6	793.6	2765.3	3694.2	2295.6	2069.1	562.5	331.4
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°	10086.9	10086.9	10086.9	10086.9	10086.9	10086.9	10086.9	10086.9	10086.9	10086.9	10086.9
2.5°	10074.7	10083.8	10073.2	10012.4	9960.7	9877.1	9830.0	9764.6	9744.8	9735.7	9760.0
5°	10112.7	10115.8	10026.1	9866.4	9687.1	9475.7	9323.7	9136.7	9048.5	9010.5	9034.9
7.5°	10147.7	10134.0	9937.9	9632.3	9300.9	8933.0	8606.2	8306.7	8131.8	8060.4	8066.5
10°	10152.2	10094.5	9779.8	9307.0	8793.1	8253.5	7751.8	7289.6	6997.7	6807.7	6865.5
12.5°	10105.1	10007.8	9547.2	8885.9	8172.9	7437.1	6759.0	6065.8	5649.3	5456.2	5462.3
15°	10068.6	9892.3	9261.4	8390.3	7432.5	6458.0	5532.2	4717.3	4273.4	4075.8	3983.1
17.5°	10038.2	9767.6	8930.0	7832.3	6558.4	5322.4	4209.6	3482.9	3239.7	3181.9	3157.6
20°	9995.7	9635.4	8560.5	7186.2	5562.6	4051.5	3074.0	2715.2	2716.7	2783.6	2792.7
22.5°	9936.4	9484.9	8166.8	6461.1	4493.9	2950.8	2409.6	2306.2	2411.1	2538.8	2561.6
25°	9848.2	9307.0	7729.0	5659.9	3426.7	2268.2	2058.4	2053.9	2181.6	2315.3	2335.1
27.5°	9723.5	9074.4	7242.5	4799.4	2525.1	1927.7	1844.1	1876.0	1970.2	2067.5	2075.1
30°	9556.3	8803.8	6705.8	3891.8	1979.4	1716.4	1707.2	1736.1	1793.9	1862.3	1868.4
32.5°	9372.4	8528.6	6132.7	3013.1	1695.1	1602.3	1611.5	1625.2	1652.5	1679.9	1686.0
35°	9205.1	8247.4	5545.9	2289.5	1559.8	1527.9	1521.8	1518.7	1521.8	1512.7	1514.2
37.5°	9097.2	8014.8	4934.7	1822.8	1482.2	1462.5	1444.2	1421.4	1395.6	1380.4	1383.4
40°	9057.7	7841.5	4316.0	1575.0	1418.4	1404.7	1369.7	1321.1	1290.7	1281.6	1281.6
42.5°	9164.1	7751.8	3718.5	1450.3	1365.2	1342.4	1284.6	1228.4	1205.6	1204.0	1202.5
45°	9489.4	7788.3	3150.0	1381.9	1316.5	1272.5	1196.4	1149.3	1134.1	1137.1	1135.6
47.5°	10073.2	8017.8	2663.5	1336.3	1267.9	1210.1	1125.0	1087.0	1068.7	1068.7	1070.3
50°	11065.9	8554.5	2275.8	1298.3	1226.8	1152.4	1073.3	1026.2	1001.8	1000.3	1000.3
52.5°	12511.7	9515.3	2034.1	1266.4	1181.2	1100.7	1021.6	962.3	933.4	927.4	924.3
55°	14323.8	10892.6	1967.2	1245.1	1120.4	1044.4	959.3	900.0	868.1	854.4	852.9
57.5°	16350.3	12567.9	2099.5	1219.2	1058.1	977.5	890.9	834.6	801.2	784.5	782.9
60°	18401.1	14396.8	2639.2	1182.8	1006.4	904.6	820.9	769.2	735.8	717.6	714.5
62.5°	20455.0	16324.5	3741.3	1179.7	969.9	834.6	749.5	705.4	673.5	653.7	649.1
65°	22771.9	18434.6	4994.0	1260.3	957.8	770.8	676.5	641.5	614.2	595.9	594.4
67.5°	25432.3	20816.8	4873.9	1426.0	998.8	713.0	608.1	580.7	561.0	545.8	544.3
70°	26680.4	20444.4	3029.9	1543.1	1056.6	656.7	542.7	523.0	507.8	497.1	492.6
71°	26157.5	19412.1	2540.3	1529.4	1050.5	632.4	516.9	501.7	486.5	477.4	472.8
72.5°	24731.5	17703.3	2119.2	1423.0	982.1	588.3	483.4	468.2	454.6	443.9	440.9
75°	22192.7	15810.6	1696.6	1137.1	782.9	497.1	424.2	407.4	396.8	390.7	384.6
77.5°	16313.8	11283.3	1312.0	898.5	576.2	405.9	361.8	349.7	339.0	329.9	325.3
80°	6249.8	4370.7	883.3	670.4	422.6	320.8	291.9	285.8	275.2	269.1	269.1
82.5°	1682.9	1305.9	471.3	405.9	282.8	234.1	223.5	220.4	211.3	199.2	200.7
85°	681.1	576.2	264.5	223.5	173.3	138.3	150.5	152.0	141.4	126.2	127.7
87.5°	299.5	244.8	147.5	98.8	76.0	53.2	68.4	68.4	62.3	51.7	47.1
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)