

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: P319533

Luminaire Tested: **GAN-SA9C-830-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319533
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-SA9C-830-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1050mA 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: 49223 lumens
Efficiency: N/A
Efficacy: 98.2 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

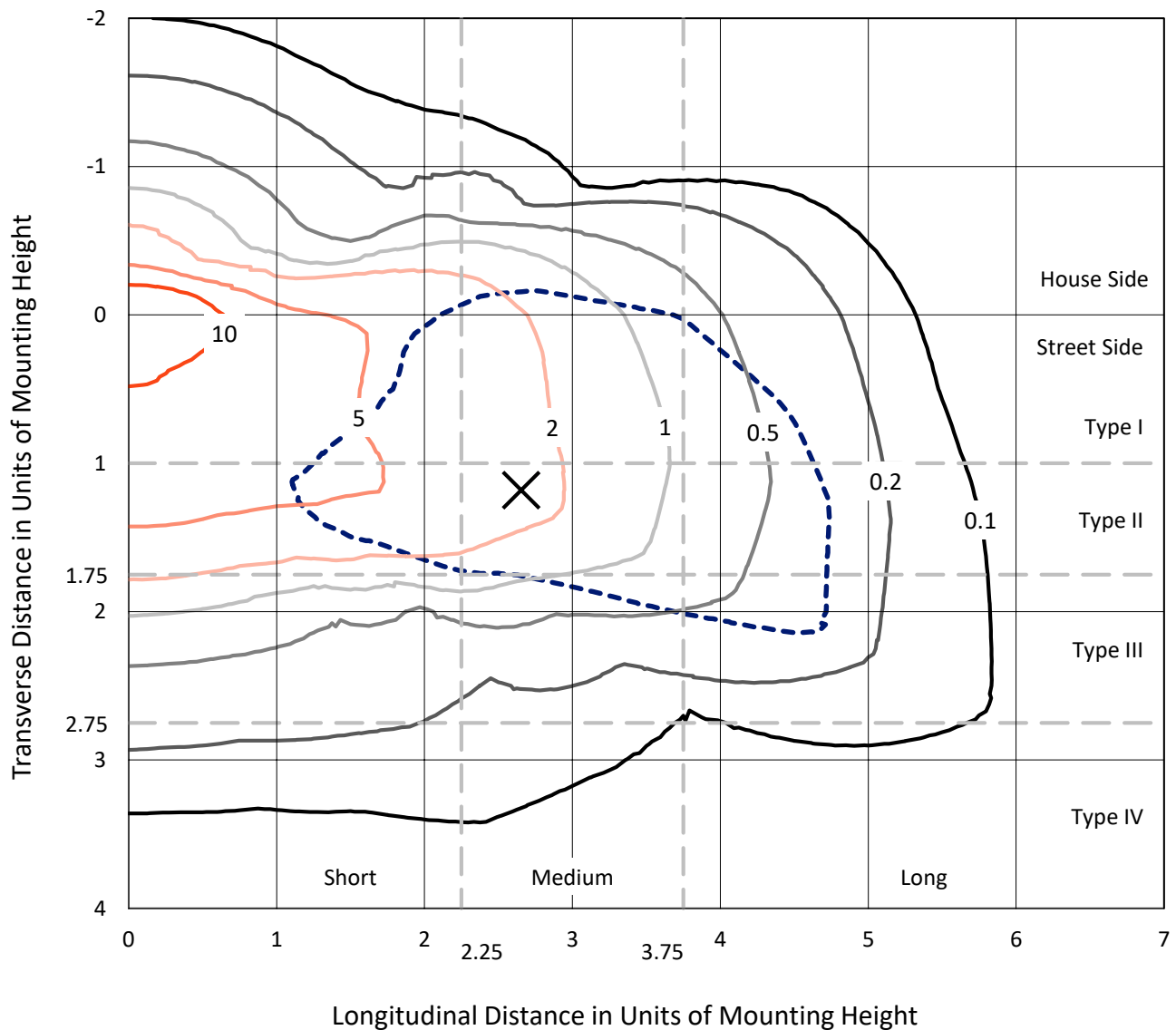
Input Watts (W): 501
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

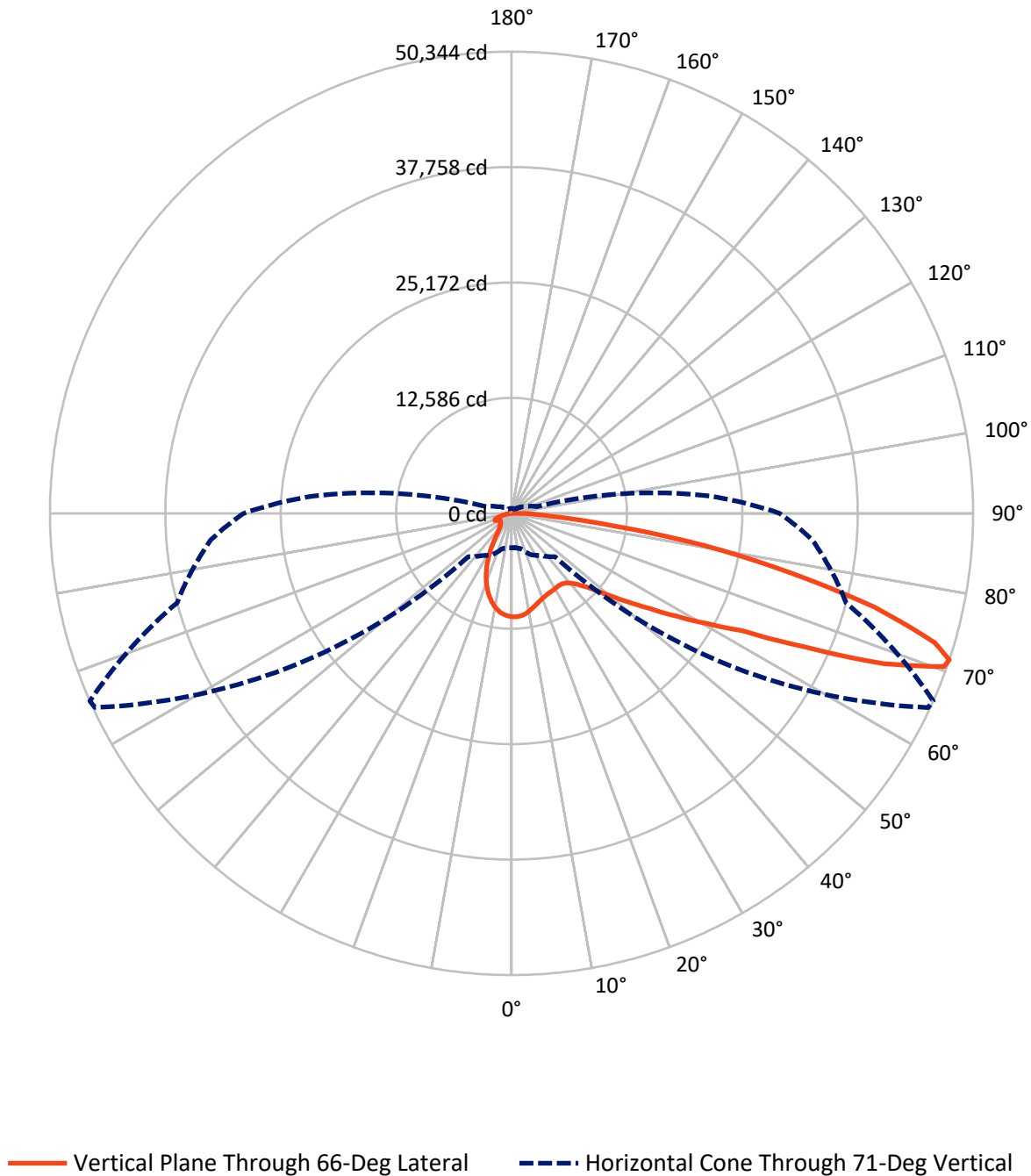
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 18 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	9122.4	0.0	9122.4
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	40100.6	0.0	40100.6
	% Fixture	81.5	0.0	81.5
Total	Lumens	49223.0	0.0	49223.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	992.6	2.0
10°-20°	2380.6	4.8
20°-30°	3197.7	6.5
30°-40°	4206.6	8.5
40°-50°	6119.4	12.4
50°-60°	9559.2	19.4
60°-70°	11974.5	24.3
70°-80°	9133.8	18.6
80°-90°	1658.6	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°	49223.0	100.0
0°-180°	49223.0	100.0

Coefficient of Utilization



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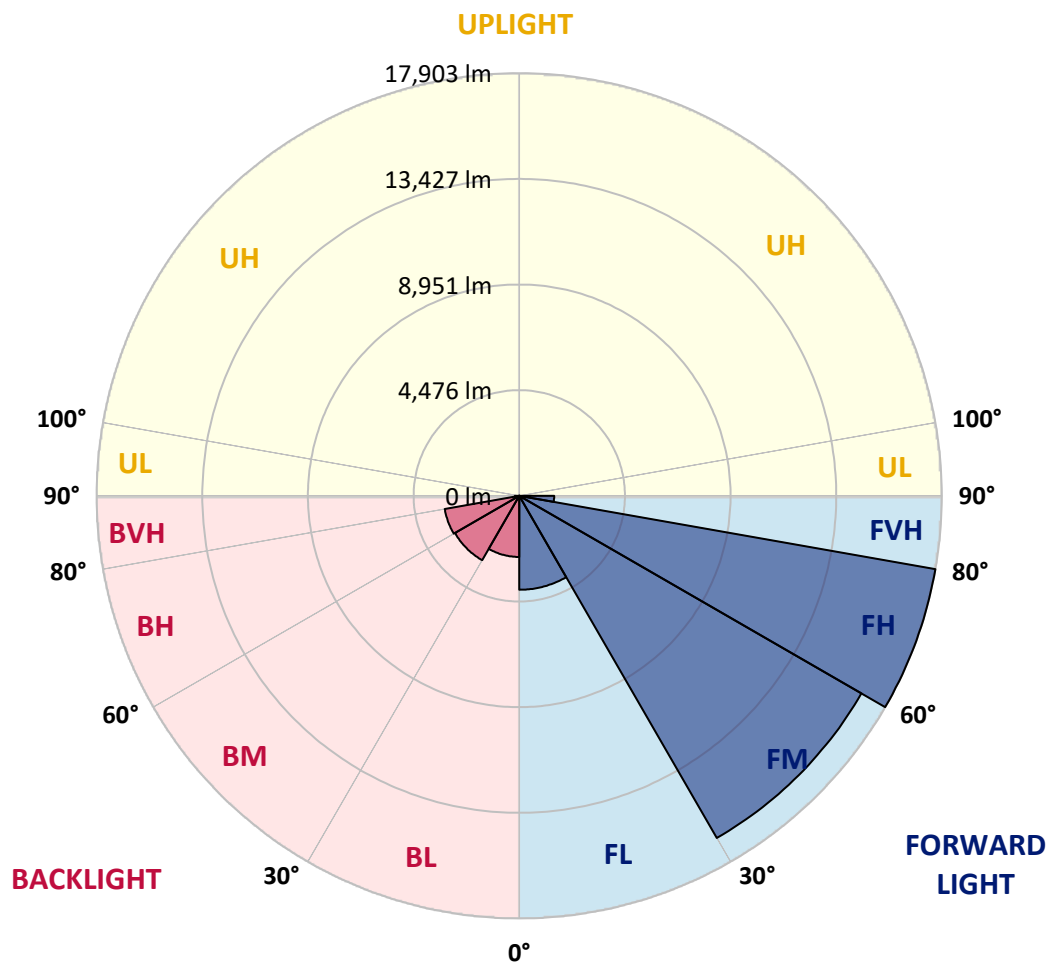
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3980.4	8.1			
FM	(30°-60°)	16738.3	34.0			
FH	(60°-80°)	17902.9	36.4			G5
FVH	(80°-90°)	1479.1	3.0			G5
BL	(0°-30°)	2590.5	5.3	B4/5000		
BM	(30°-60°)	3146.9	6.4	B3/5000		
BH	(60°-80°)	3205.4	6.5	B4/5000		G4/5000
BVH	(80°-90°)	179.5	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°	11276.0	11276.0	11276.0	11276.0	11276.0	11276.0	11276.0	11276.0	11276.0	11276.0	11276.0
2.5°	11067.0	11050.0	11101.0	11153.7	11174.1	11208.1	11259.0	11287.9	11286.2	11291.3	11274.3
5°	10332.8	10310.7	10412.7	10496.0	10655.7	10835.9	11055.1	11211.5	11214.9	11303.2	11327.0
7.5°	9637.7	9622.4	9739.7	9874.0	10059.2	10334.5	10689.7	11026.2	11046.6	11286.2	11369.5
10°	9080.3	9076.9	9190.8	9336.9	9552.8	9860.4	10268.2	10761.1	10791.7	11204.7	11376.3
12.5°	8645.2	8652.0	8750.6	8917.2	9144.9	9466.1	9908.0	10463.7	10513.0	11075.5	11337.2
15°	8324.0	8351.2	8431.1	8599.4	8823.7	9150.0	9603.8	10188.4	10263.1	10931.0	11315.1
17.5°	8140.5	8171.1	8227.2	8366.5	8577.3	8891.7	9321.6	9962.3	10030.3	10820.6	11316.8
20°	8086.1	8111.6	8143.9	8228.9	8407.3	8692.8	9099.0	9758.4	9831.5	10732.2	11333.8
22.5°	8193.2	8211.9	8215.3	8208.5	8317.2	8550.1	8937.6	9608.8	9687.0	10674.4	11345.7
25°	8422.6	8448.1	8429.4	8366.5	8330.8	8473.6	8854.3	9510.3	9588.5	10631.9	11321.9
27.5°	8767.6	8771.0	8755.7	8674.1	8505.9	8482.1	8828.8	9452.5	9527.3	10582.6	11272.6
30°	9236.7	9258.8	9231.6	9121.1	8845.8	8618.1	8859.4	9396.4	9464.4	10519.8	11192.8
32.5°	9785.6	9840.0	9838.3	9722.7	9328.4	8922.3	8985.1	9362.4	9415.1	10453.5	11095.9
35°	10354.9	10429.7	10569.1	10519.8	10032.0	9403.2	9226.5	9416.8	9452.5	10445.0	11027.9
37.5°	10946.3	11021.1	11308.3	11440.9	10869.9	10091.5	9607.1	9608.8	9625.8	10548.7	11022.8
40°	11564.9	11644.8	12076.5	12421.5	11955.8	10963.3	10220.7	10009.9	9991.2	10803.6	11123.1
42.5°	12431.7	12503.1	13021.4	13461.6	13160.8	12079.9	11068.7	10628.5	10589.4	11303.2	11444.3
45°	13527.8	13589.0	14139.7	14610.4	14455.8	13354.5	12134.3	11480.0	11473.2	12136.0	12095.2
47.5°	14831.3	14878.9	15373.5	15828.9	15885.0	14821.1	13473.5	12793.7	12683.2	13278.0	13103.0
50°	16189.2	16241.9	16578.4	17067.9	17484.2	16784.0	15196.7	14403.1	14255.2	14785.5	14530.5
52.5°	17088.3	17157.9	17450.2	18070.5	19282.3	18935.6	17234.4	16354.1	16129.7	16612.4	16417.0
55°	16687.2	16843.5	17290.5	18284.7	20720.0	22222.4	19747.9	18629.7	18376.5	18777.5	18662.0
57.5°	14863.6	15077.8	15687.9	17222.5	20922.3	25118.3	23548.0	21309.8	21131.3	21015.7	21068.4
60°	11531.0	11736.6	12492.9	14493.1	19513.4	27232.4	29266.7	24613.5	24355.2	23262.5	23310.0
62.5°	8160.9	8057.2	8575.6	10038.8	15856.1	27480.6	35774.0	29032.2	28182.4	25634.9	25425.9
65°	6223.5	6199.7	6432.5	6898.2	9603.8	24511.6	39650.5	36458.9	35131.6	28425.5	27932.6
67.5°	5113.7	5071.2	5300.7	5978.8	6184.4	15813.6	39735.5	45075.3	43771.8	31899.2	30831.9
70°	4204.5	4156.9	4371.1	5246.3	5715.3	8019.8	33442.3	50121.0	50051.3	36297.5	33020.9
71°	3769.4	3735.5	3992.1	4964.2	5615.1	6684.0	28874.1	50134.6	50343.6	37786.2	32891.7
72.5°	3069.3	3081.2	3353.1	4418.6	5540.3	5902.3	21221.4	47797.8	48239.7	39205.3	31717.4
75°	2039.4	2049.6	2406.5	3399.0	5372.0	5774.8	11663.5	40107.7	40920.0	38355.5	28942.1
77.5°	1369.8	1366.4	1609.4	2331.7	4680.4	5774.8	6838.7	29997.5	30889.7	30519.2	22312.4
80°	943.2	936.4	1108.1	1609.4	3543.4	5844.5	5287.1	21022.5	21292.8	16481.5	9068.4
82.5°	577.8	582.9	724.0	1137.0	2411.6	5259.9	4991.4	11463.0	11169.0	4622.6	2265.4
85°	331.4	329.7	462.3	769.9	1548.2	4439.0	4867.3	4933.6	4525.7	1391.9	819.1
87.5°	119.0	127.5	248.1	426.6	887.1	3091.4	4129.7	2566.2	2313.0	628.8	370.5
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°	11276.0	11276.0	11276.0	11276.0	11276.0	11276.0	11276.0	11276.0	11276.0	11276.0	11276.0
2.5°	11262.4	11272.6	11260.7	11192.8	11135.0	11041.5	10988.8	10915.7	10893.7	10883.5	10910.6
5°	11304.9	11308.3	11208.1	11029.6	10829.1	10592.8	10422.9	10213.9	10115.3	10072.8	10100.0
7.5°	11344.0	11328.7	11109.5	10767.9	10397.4	9986.1	9620.7	9285.9	9090.5	9010.6	9017.4
10°	11349.1	11284.5	10932.7	10404.2	9829.8	9226.5	8665.6	8149.0	7822.7	7610.3	7674.8
12.5°	11296.4	11187.7	10672.7	9933.4	9136.4	8313.8	7555.9	6780.9	6315.3	6099.4	6106.2
15°	11255.6	11058.5	10353.2	9379.4	8308.7	7219.4	6184.4	5273.5	4777.2	4556.3	4452.6
17.5°	11221.7	10919.1	9982.7	8755.7	7331.5	5949.9	4705.9	3893.5	3621.6	3557.0	3529.8
20°	11174.1	10771.3	9569.8	8033.4	6218.4	4529.1	3436.3	3035.3	3037.0	3111.7	3121.9
22.5°	11107.8	10603.0	9129.6	7222.8	5023.7	3298.7	2693.7	2578.1	2695.4	2838.1	2863.6
25°	11009.2	10404.2	8640.1	6327.2	3830.6	2535.6	2301.1	2296.0	2438.8	2588.3	2610.4
27.5°	10869.9	10144.2	8096.3	5365.3	2822.8	2154.9	2061.5	2097.2	2202.5	2311.3	2319.8
30°	10682.9	9841.7	7496.4	4350.7	2212.7	1918.7	1908.5	1940.8	2005.4	2081.9	2088.7
32.5°	10477.3	9534.1	6855.7	3368.4	1894.9	1791.2	1801.4	1816.7	1847.3	1877.9	1884.7
35°	10290.3	9219.7	6199.7	2559.4	1743.7	1708.0	1701.2	1697.8	1701.2	1691.0	1692.7
37.5°	10169.7	8959.6	5516.5	2037.7	1657.0	1634.9	1614.5	1589.0	1560.1	1543.1	1546.5
40°	10125.5	8765.9	4824.8	1760.7	1585.6	1570.3	1531.2	1476.8	1442.9	1432.7	1432.7
42.5°	10244.5	8665.6	4156.9	1621.3	1526.1	1500.6	1436.1	1373.2	1347.7	1346.0	1344.3
45°	10608.1	8706.4	3521.3	1544.8	1471.7	1422.5	1337.5	1284.8	1267.8	1271.2	1269.5
47.5°	11260.7	8963.0	2977.5	1493.8	1417.4	1352.8	1257.6	1215.1	1194.7	1194.7	1196.4
50°	12370.5	9563.0	2544.1	1451.4	1371.5	1288.2	1199.8	1147.1	1120.0	1118.3	1118.3
52.5°	13986.7	10637.0	2273.9	1415.7	1320.5	1230.4	1142.0	1075.8	1043.5	1036.7	1033.3
55°	16012.5	12176.8	2199.1	1391.9	1252.5	1167.5	1072.4	1006.1	970.4	955.1	953.4
57.5°	18277.9	14049.6	2347.0	1363.0	1182.8	1092.8	995.9	933.0	895.6	876.9	875.2
60°	20570.5	16094.1	2950.3	1322.2	1125.1	1011.2	917.7	859.9	822.5	802.2	798.8
62.5°	22866.5	18249.0	4182.4	1318.8	1084.3	933.0	837.8	788.6	752.9	730.8	725.7
65°	25456.5	20607.9	5582.8	1408.9	1070.7	861.6	756.3	717.2	686.6	666.2	664.5
67.5°	28430.6	23271.0	5448.5	1594.1	1116.6	797.1	679.8	649.2	627.1	610.1	608.4
70°	29825.8	22854.6	3387.1	1725.0	1181.1	734.2	606.7	584.6	567.6	555.7	550.6
71°	29241.2	21700.6	2839.8	1709.7	1174.3	707.0	577.8	560.8	543.8	533.6	528.5
72.5°	27647.1	19790.4	2369.1	1590.7	1097.9	657.7	540.4	523.4	508.1	496.2	492.8
75°	24809.0	17674.6	1896.6	1271.2	875.2	555.7	474.2	455.5	443.6	436.8	430.0
77.5°	18237.1	12613.5	1466.6	1004.4	644.1	453.8	404.5	390.9	379.0	368.8	363.7
80°	6986.6	4886.0	987.4	749.5	472.5	358.6	326.3	319.5	307.6	300.8	300.8
82.5°	1881.3	1459.9	526.8	453.8	316.1	261.7	249.8	246.4	236.2	222.6	224.3
85°	761.4	644.1	295.7	249.8	193.7	154.7	168.2	169.9	158.1	141.1	142.8
87.5°	334.8	273.6	164.8	110.5	85.0	59.5	76.5	76.5	69.7	57.8	52.7
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)