

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: P319814

Luminaire Tested: **GAN-SA0C-827-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319814
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-22)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-827-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 51469 lumens
Efficiency: N/A
Efficacy: 92.2 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): 558
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

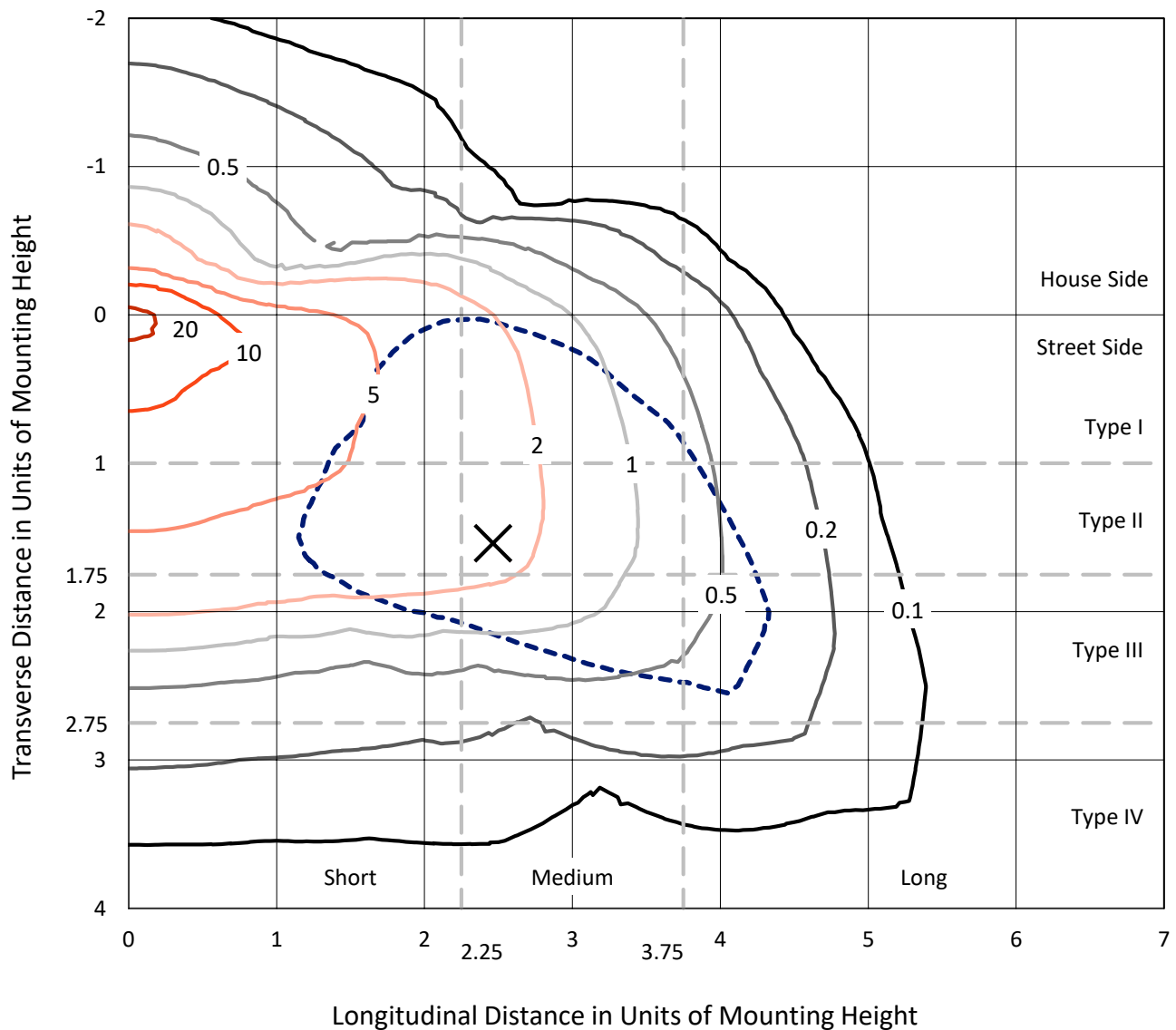


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Iso-Footcandle Lines of Horizontal Illumination

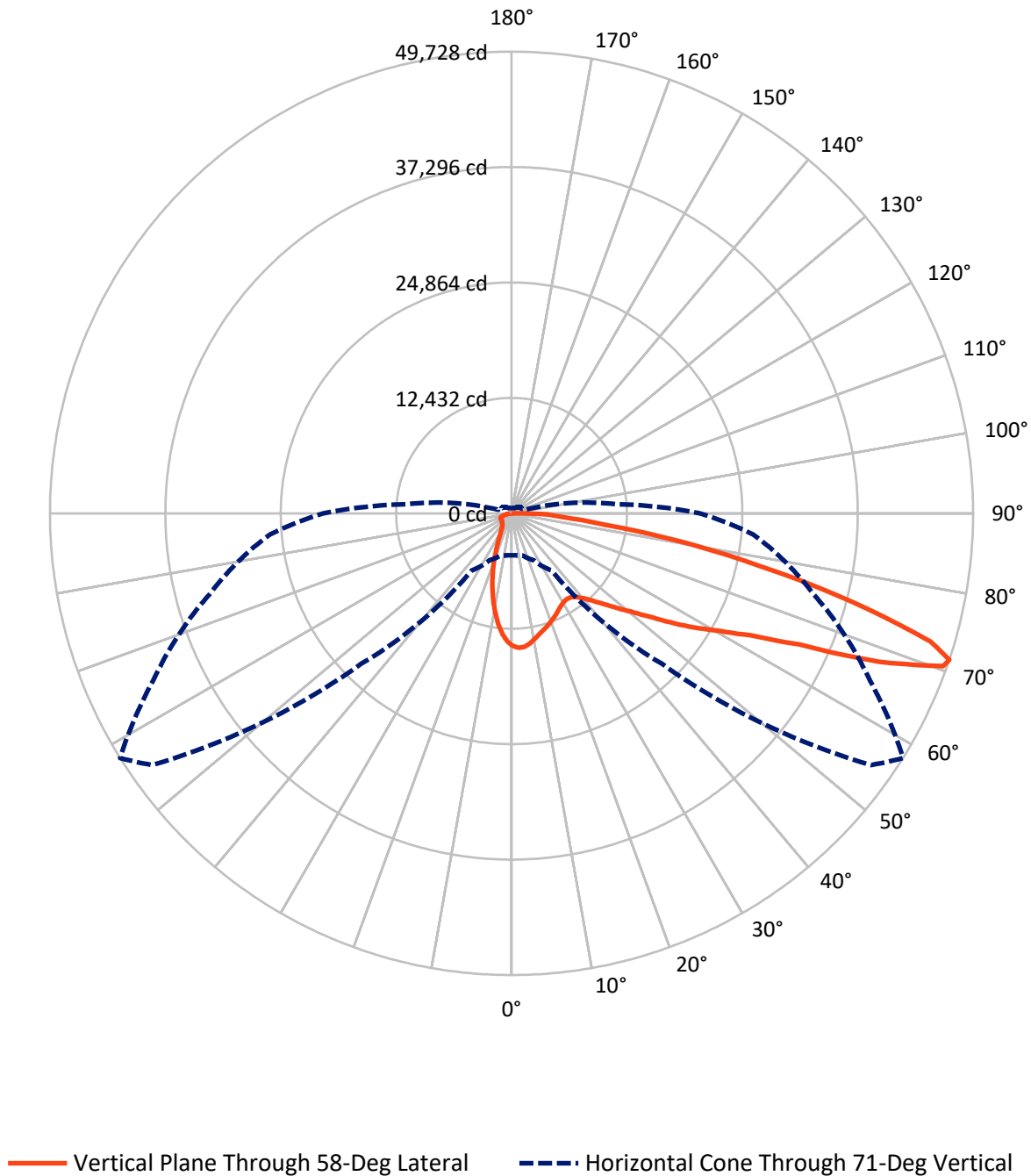
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 22.8 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	7695.0	0.0	7695.0
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	43774.0	0.0	43774.0
	% Fixture	85.0	0.0	85.0
Total	Lumens	51469.0	0.0	51469.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1230.2	2.4
10°-20°	2735.6	5.3
20°-30°	3476.7	6.8
30°-40°	4428.6	8.6
40°-50°	6279.9	12.2
50°-60°	9718.4	18.9
60°-70°	13230.4	25.7
70°-80°	8826.2	17.1
80°-90°	1543.1	3.0
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°	51469.0	100.0
0°-180°	51469.0	100.0

Coefficient of Utilization



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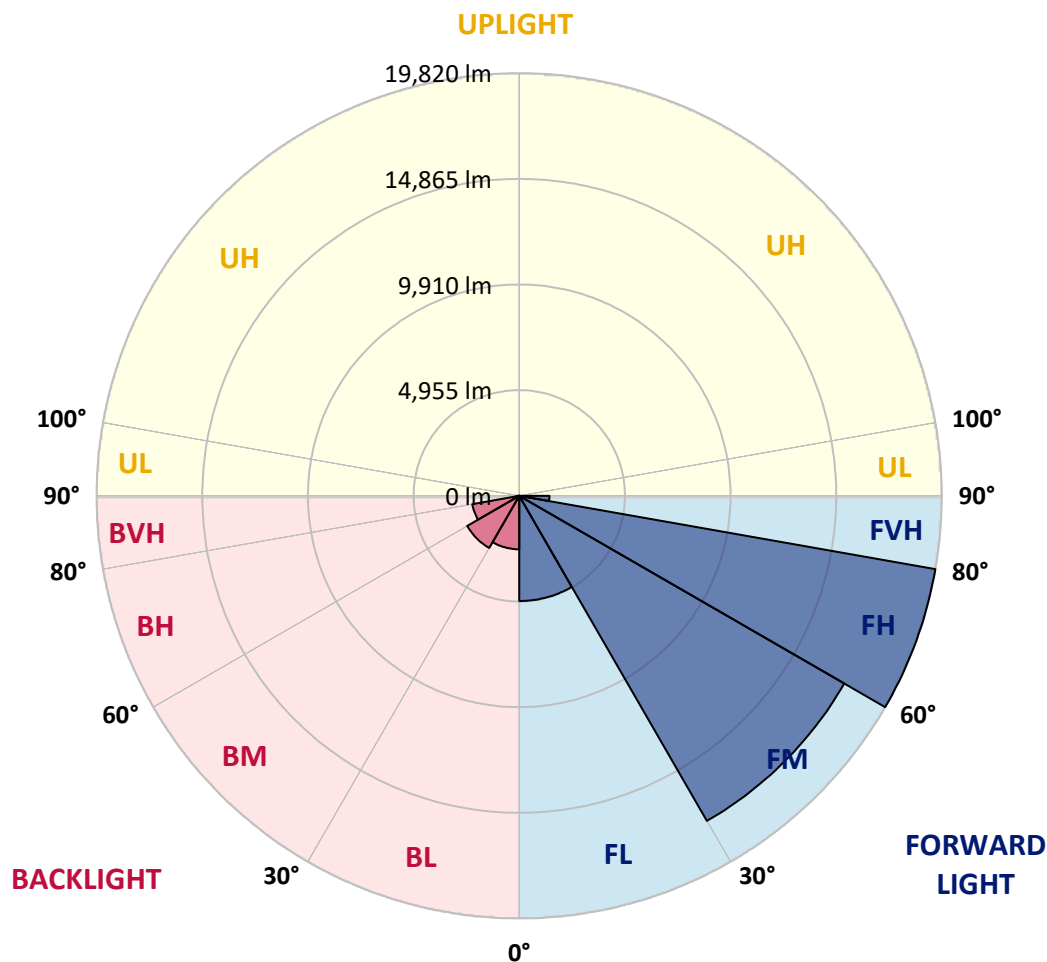
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4934.1	9.6			
FM	(30°-60°)	17604.9	34.2			
FH	(60°-80°)	19820.1	38.5			G5
FVH	(80°-90°)	1414.9	2.7			G5
BL	(0°-30°)	2508.3	4.9	B4/5000		
BM	(30°-60°)	2822.0	5.5	B3/5000		
BH	(60°-80°)	2236.5	4.3	B3/2500		G3/2500
BVH	(80°-90°)	128.2	0.2			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°	58°	65°	75°	85°
0°	14260.4	14260.4	14260.4	14260.4	14260.4	14260.4	14260.4	14260.4	14260.4	14260.4	14260.4
2.5°	14638.6	14618.9	14626.1	14611.8	14577.7	14543.6	14493.4	14502.4	14432.5	14328.5	14199.4
5°	14362.5	14355.4	14409.2	14439.6	14464.7	14445.0	14430.7	14448.6	14346.4	14203.0	13978.9
7.5°	13783.5	13704.6	13772.7	13874.9	13971.7	14045.2	14142.0	14154.6	14090.0	13939.4	13645.4
10°	12960.5	12885.2	12985.6	13145.2	13338.8	13514.5	13709.9	13745.8	13758.4	13622.1	13265.3
12.5°	12107.1	12049.8	12150.2	12374.3	12695.2	12965.9	13277.9	13331.7	13442.8	13351.4	12913.9
15°	11343.4	11321.9	11443.8	11664.3	12033.6	12447.8	12897.8	12996.4	13184.6	13154.2	12639.6
17.5°	10683.6	10678.2	10771.5	11002.7	11411.5	11935.0	12519.5	12686.2	12965.9	13001.8	12413.7
20°	10192.4	10181.6	10246.2	10416.5	10837.8	11431.2	12110.7	12340.2	12743.6	12869.1	12180.6
22.5°	9928.8	9927.0	9928.8	10009.5	10353.7	10905.9	11712.7	11992.4	12526.7	12763.3	11922.5
25°	9884.0	9878.6	9839.2	9830.2	10025.6	10466.7	11318.3	11626.7	12320.5	12689.8	11676.9
27.5°	10000.5	10007.7	9955.7	9871.4	9910.9	10178.0	10975.8	11305.7	12155.5	12675.5	11506.5
30°	10242.6	10239.0	10194.2	10106.3	10029.2	10070.5	10732.0	11061.9	12044.4	12738.2	11390.0
32.5°	10509.7	10529.4	10520.5	10472.1	10357.3	10192.4	10658.5	10981.2	12012.1	12888.8	11339.8
35°	10830.6	10852.1	10916.7	10954.3	10819.9	10554.5	10816.3	11096.0	12105.3	13172.1	11420.5
37.5°	11135.4	11191.0	11372.1	11531.6	11416.9	11121.1	11235.8	11434.8	12394.0	13618.5	11637.4
40°	11486.8	11535.2	11831.0	12169.9	12152.0	11845.4	11911.7	12044.4	12903.2	14258.6	12030.0
42.5°	11832.8	11929.6	12358.1	12838.6	12976.7	12706.0	12811.7	12881.6	13620.3	15106.6	12714.9
45°	12293.6	12397.6	12992.8	13571.9	13894.6	13742.2	13910.7	13937.6	14522.1	16261.2	13709.9
47.5°	12991.0	13109.3	13803.2	14411.0	14904.0	14920.1	15198.0	15187.3	15648.0	17582.5	14963.2
50°	14077.5	14247.8	14816.1	15384.5	15983.3	16316.8	16687.9	16635.9	16998.0	18989.9	16406.4
52.5°	15501.0	15579.9	16001.2	16420.7	17164.8	17912.4	18444.9	18398.3	18529.1	20436.7	18045.1
55°	16976.5	17035.7	17209.6	17439.1	18439.5	19658.6	20784.5	20711.0	20379.4	21939.1	19664.0
57.5°	18303.2	18423.4	18543.5	18638.5	19723.2	21483.8	23178.0	23183.4	22387.4	23559.9	21336.7
60°	18509.4	18615.2	19409.4	20158.8	21919.4	23918.5	25740.0	25686.2	24465.3	25318.7	23201.3
62.5°	16361.6	16600.0	17926.7	19920.4	24035.0	28371.9	29008.4	28942.0	26950.2	27486.2	25372.5
65°	11725.3	11996.0	13597.0	16592.9	23009.5	33278.9	34906.9	34014.0	30338.7	30152.2	27914.7
67.5°	6764.4	6829.0	7522.8	9928.8	17519.8	33535.3	43905.2	42655.6	35600.7	33176.7	29159.0
70°	5002.1	5000.3	5165.2	6110.0	9480.6	27369.7	48184.7	49305.3	41140.6	34171.8	27400.2
71°	4523.4	4528.7	4713.4	5561.4	7508.5	22909.1	47275.7	49728.4	42600.0	33680.5	26127.2
72.5°	3869.0	3886.9	4143.3	4987.7	6316.2	15798.6	43360.2	47189.7	43292.0	32468.6	24135.4
75°	2934.9	2976.1	3331.1	4204.2	5773.0	8012.3	31823.1	37682.2	38458.5	28649.8	17933.9
77.5°	2094.1	2140.7	2542.3	3535.5	5487.9	6038.3	21311.6	27486.2	28302.0	18360.6	8089.4
80°	1323.1	1378.7	1681.7	2813.0	5156.2	5733.5	13392.6	18475.4	15432.9	5875.2	2058.2
82.5°	776.3	819.3	1043.4	1837.7	4211.4	5522.0	7879.6	10240.8	6006.1	1774.9	935.9
85°	450.0	469.7	650.8	1170.7	3058.6	5211.8	5789.1	5724.6	2606.8	867.7	442.8
87.5°	209.8	233.1	385.5	611.4	1697.8	3777.5	4575.4	3953.2	1620.7	407.0	208.0
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°	14260.4	14260.4	14260.4	14260.4	14260.4	14260.4	14260.4	14260.4	14260.4	14260.4	14260.4
2.5°	14136.6	14106.2	13978.9	13865.9	13747.6	13593.4	13423.1	13401.6	13297.6	13317.3	13281.5
5°	13857.0	13779.9	13473.3	13195.4	12867.3	12573.3	12254.2	12107.1	11895.6	11881.2	11827.5
7.5°	13457.2	13313.7	12838.6	12311.5	11784.4	11282.4	10785.8	10459.5	10126.0	9984.4	9971.8
10°	13007.1	12763.3	12064.1	11284.2	10524.0	9790.8	9080.8	8555.5	8082.2	7858.1	7849.1
12.5°	12580.5	12220.1	11260.9	10199.5	9159.7	8209.5	7236.0	6545.7	5952.3	5753.3	5669.0
15°	12218.3	11710.9	10479.2	9122.0	7859.9	6540.3	5432.3	4706.2	4157.6	3967.6	3931.7
17.5°	11866.9	11214.3	9677.8	8033.8	6508.1	5057.6	3947.9	3408.2	3116.0	3038.9	3037.1
20°	11517.3	10703.3	8840.6	6920.4	5201.1	3782.9	3035.3	2793.3	2694.7	2685.7	2671.4
22.5°	11121.1	10161.9	7960.3	5803.5	4059.0	2974.3	2579.9	2483.1	2470.6	2502.8	2502.8
25°	10749.9	9624.0	7067.4	4709.8	3157.2	2481.3	2303.8	2284.1	2318.2	2375.5	2380.9
27.5°	10403.9	9105.9	6196.1	3738.1	2529.7	2185.5	2112.0	2135.3	2196.2	2262.6	2264.4
30°	10118.9	8616.5	5349.9	2945.7	2137.1	1965.0	1952.4	1999.0	2065.4	2117.4	2129.9
32.5°	9898.3	8198.7	4532.3	2368.4	1880.7	1800.0	1810.8	1850.2	1891.5	1920.1	1939.9
35°	9796.1	7840.1	3777.5	1997.2	1717.6	1672.7	1687.1	1708.6	1726.5	1748.0	1764.2
37.5°	9814.1	7562.3	3103.4	1766.0	1608.2	1584.9	1584.9	1584.9	1584.9	1595.6	1597.4
40°	9980.8	7402.7	2554.8	1618.9	1534.7	1509.6	1489.9	1471.9	1457.6	1464.8	1461.2
42.5°	10407.5	7388.3	2153.2	1525.7	1475.5	1434.3	1394.8	1369.7	1351.8	1359.0	1362.6
45°	11131.8	7567.6	1882.5	1459.4	1419.9	1357.2	1307.0	1280.1	1267.5	1290.9	1294.4
47.5°	12069.5	7958.5	1717.6	1411.0	1367.9	1285.5	1231.7	1206.6	1210.2	1244.2	1253.2
50°	13277.9	8593.1	1638.7	1380.5	1332.1	1224.5	1168.9	1147.4	1158.2	1206.6	1217.3
52.5°	14604.6	9507.5	1647.6	1371.5	1308.8	1179.7	1120.5	1095.4	1113.4	1158.2	1167.1
55°	16135.7	10606.5	1796.4	1384.1	1274.7	1151.0	1081.1	1038.1	1052.4	1093.6	1100.8
57.5°	17837.1	11865.1	2095.8	1380.5	1231.7	1124.1	1039.9	975.3	986.1	1011.2	1018.3
60°	19608.4	13385.4	2560.2	1391.3	1212.0	1091.8	984.3	903.6	900.0	921.5	925.1
62.5°	21734.8	15144.2	3090.9	1398.4	1224.5	1050.6	910.8	831.9	821.1	826.5	830.1
65°	23925.6	16417.2	2891.9	1369.7	1264.0	1016.5	846.2	762.0	742.2	738.7	740.4
67.5°	23993.8	15052.8	2027.7	1312.4	1280.1	998.6	797.8	702.8	670.5	658.0	656.2
70°	21517.8	12229.1	1579.5	1251.4	1215.6	969.9	753.0	654.4	606.0	586.3	584.5
71°	20309.4	11257.3	1497.0	1220.9	1167.1	941.2	733.3	632.9	582.7	561.2	557.6
72.5°	18414.4	10092.0	1396.6	1172.5	1073.9	867.7	695.6	602.4	550.4	525.3	519.9
75°	13215.1	6599.5	1199.4	1045.2	889.3	692.0	609.6	541.4	496.6	466.1	462.6
77.5°	5091.7	2626.5	907.2	869.5	681.3	541.4	502.0	467.9	435.7	405.2	403.4
80°	1574.1	1174.3	661.6	654.4	493.0	403.4	390.8	381.9	369.3	337.1	329.9
82.5°	840.8	674.1	455.4	423.1	322.7	268.9	283.3	286.9	288.6	254.6	251.0
85°	401.6	356.8	256.4	240.2	188.2	150.6	173.9	188.2	190.0	156.0	145.2
87.5°	191.8	186.5	120.1	91.4	69.9	50.2	61.0	75.3	82.5	59.2	52.0
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)