

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: P320174

Luminaire Tested: **GAN-SA0C-830-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P320174
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-24)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA0C-830-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(10) 80 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 52863 lumens
Efficiency: N/A
Efficacy: 94.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - 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



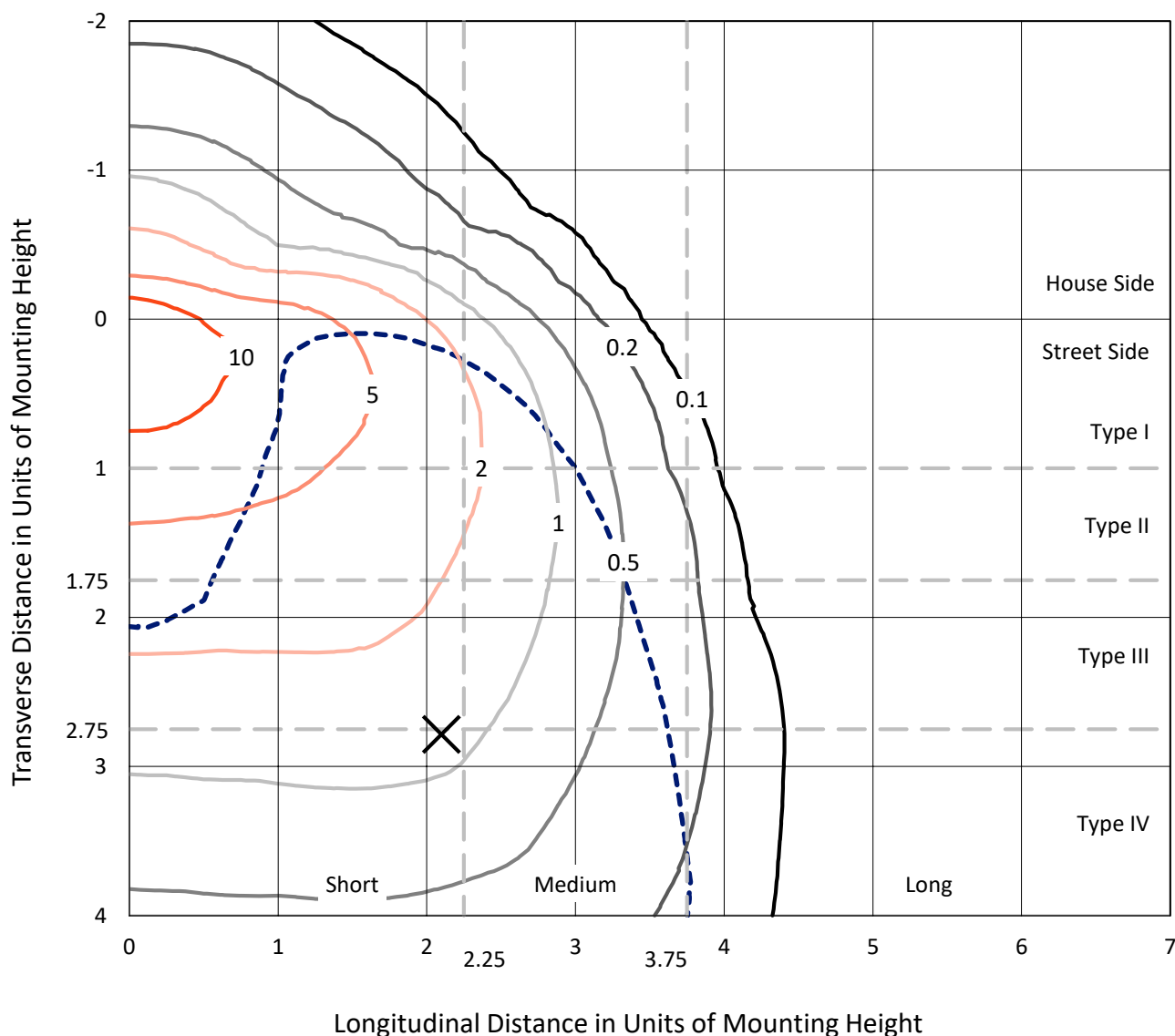
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

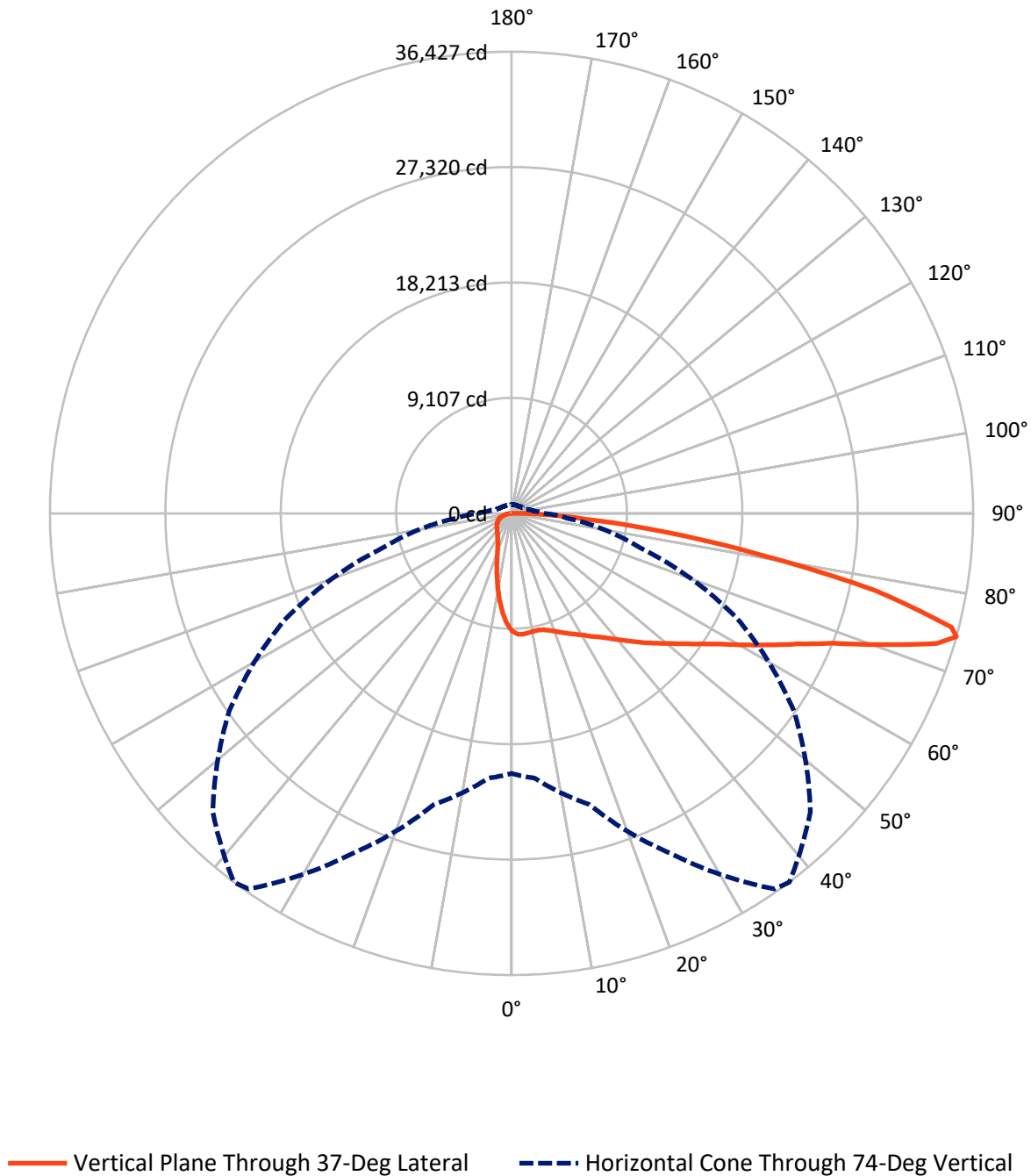


Based on 25 foot mounting height. Maximum calculated value = 15.1 fc

Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7273.6	0.0	7273.6
	% Fixture	13.8	0.0	13.8
Street Side	Lumens	45589.4	0.0	45589.4
	% Fixture	86.2	0.0	86.2
Total	Lumens	52863.0	0.0	52863.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	820.2	1.6
10°-20°	2102.5	4.0
20°-30°	3239.5	6.1
30°-40°	4710.7	8.9
40°-50°	6933.3	13.1
50°-60°	9736.6	18.4
60°-70°	12323.5	23.3
70°-80°	10851.3	20.5
80°-90°	2145.5	4.1
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°	52863.0	100.0
0°-180°	52863.0	100.0

Coefficient of Utilization



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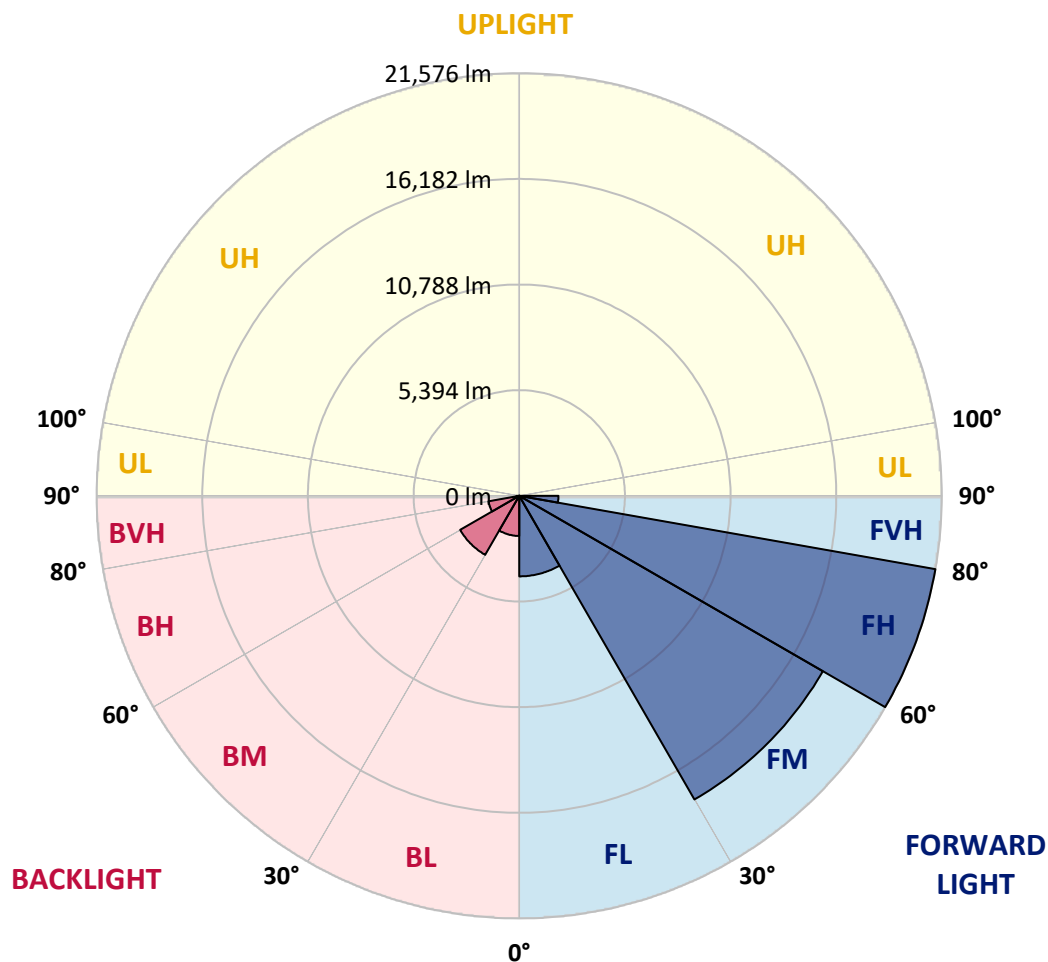
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4113.4	7.8			
FM	(30°-60°)	17899.8	33.9			
FH	(60°-80°)	21576.0	40.8			G5
FVH	(80°-90°)	2000.2	3.8			G5
BL	(0°-30°)	2048.8	3.9	B3/2500		
BM	(30°-60°)	3480.7	6.6	B3/5000		
BH	(60°-80°)	1598.8	3.0	B3/2500		G3/2500
BVH	(80°-90°)	145.3	0.3			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37°	45°	55°	65°	75°	85°
0°	9314.3	9314.3	9314.3	9314.3	9314.3	9314.3	9314.3	9314.3	9314.3	9314.3	9314.3
2.5°	9632.7	9634.5	9632.7	9617.8	9582.4	9552.6	9528.4	9493.0	9414.8	9355.2	9265.8
5°	9723.9	9712.7	9705.3	9677.4	9621.5	9588.0	9541.4	9474.4	9345.9	9226.7	9081.5
7.5°	9681.1	9668.1	9651.3	9617.8	9554.5	9526.5	9461.4	9373.8	9219.3	9062.9	8854.3
10°	9548.9	9545.2	9537.7	9530.3	9476.3	9453.9	9394.3	9301.2	9148.5	8958.6	8714.7
12.5°	9401.8	9411.1	9440.9	9480.0	9455.8	9444.6	9407.4	9344.0	9187.6	8982.8	8688.6
15°	9308.7	9334.7	9414.8	9517.2	9537.7	9534.0	9524.7	9483.7	9318.0	9090.8	8748.2
17.5°	9277.0	9319.8	9472.5	9642.0	9701.6	9714.6	9718.3	9647.6	9463.2	9223.0	8809.6
20°	9334.7	9388.7	9612.2	9845.0	9939.9	9947.4	9930.6	9807.7	9601.0	9336.6	8843.1
22.5°	9509.8	9558.2	9837.5	10100.1	10208.1	10219.2	10169.0	9982.8	9746.3	9470.7	8889.7
25°	9846.8	9906.4	10185.7	10448.3	10504.1	10506.0	10433.4	10202.5	9936.2	9658.7	8990.2
27.5°	10286.3	10345.9	10597.2	10854.2	10824.4	10807.7	10709.0	10478.1	10183.9	9917.6	9169.0
30°	10776.0	10841.2	11079.5	11262.0	11191.3	11157.7	11077.7	10779.7	10528.3	10271.4	9442.7
32.5°	11282.5	11342.1	11550.6	11675.4	11586.0	11571.1	11450.1	11178.2	10977.1	10811.4	9885.9
35°	11802.0	11844.9	12049.7	12120.4	12001.3	11997.6	11964.0	11714.5	11587.9	11666.1	10530.2
37.5°	12332.7	12343.9	12518.9	12522.7	12487.3	12502.2	12537.6	12381.1	12416.5	12660.5	11368.2
40°	12805.7	12835.5	12962.1	13001.2	13062.7	13114.8	13291.7	13189.3	13463.0	13895.0	12410.9
42.5°	13155.8	13213.5	13416.5	13517.0	13716.3	13798.2	14047.7	14142.7	14693.9	15341.9	13651.1
45°	13451.9	13541.2	13867.1	14073.8	14410.8	14554.2	14911.7	15230.2	16084.9	16911.6	14956.4
47.5°	13772.1	13885.7	14293.5	14688.3	15146.4	15308.4	15958.3	16435.0	17569.0	18490.7	16187.3
50°	14243.3	14330.8	14729.3	15349.3	15921.0	16129.6	17029.0	17712.4	19077.3	19995.3	17254.3
52.5°	14900.6	14867.1	15204.1	16073.7	16840.9	17097.9	18172.3	19071.7	20606.1	21356.5	18155.5
55°	15561.6	15505.8	15742.2	16831.6	17913.5	18183.5	19431.1	20436.6	22060.4	22581.8	18846.4
57.5°	16297.2	16191.0	16390.3	17686.3	19135.0	19457.1	20840.7	21887.2	23490.5	23572.4	19285.8
60°	17055.0	16911.6	17135.1	18745.8	20686.1	21066.0	22490.5	23302.4	24838.6	24365.7	19427.4
62.5°	17717.9	17617.4	17961.9	19928.3	22434.7	22851.8	24110.6	24807.0	26168.2	24695.3	18917.1
65°	18297.1	18313.8	18909.7	21257.8	24384.3	24829.3	25968.9	26661.6	27214.7	24499.7	17723.5
67.5°	18987.9	19082.9	20099.6	23008.2	26838.5	27326.4	28672.7	28683.9	27799.4	23352.7	15373.5
70°	19995.3	20190.8	21736.4	25436.4	30328.1	30998.5	32037.5	29871.9	26978.2	20243.0	12096.2
72.5°	20889.1	21254.1	23477.4	28214.6	34581.2	35089.5	34005.8	29186.7	23546.3	15170.6	7535.9
74°	20526.0	20978.5	23794.0	29583.3	36182.6	36426.5	33341.0	27186.8	19632.2	10506.0	4379.7
75°	19743.9	20235.5	23332.2	29570.2	35979.6	35843.7	31735.9	24901.9	16168.7	7165.4	2914.2
77.5°	15934.0	16453.6	19660.1	25343.3	29501.4	29372.9	24378.7	16705.0	7081.6	2350.0	1480.4
80°	9264.0	9660.6	12204.2	16094.2	19892.9	20125.6	16032.7	8265.9	2785.7	1320.2	1003.7
82.5°	4115.3	4389.0	5895.4	8215.6	12005.0	12304.8	8396.2	4331.3	1720.6	802.6	603.3
85°	2700.1	2903.0	3579.0	3912.3	5716.7	5921.5	4109.7	3372.3	1135.9	441.3	443.2
87.5°	1942.2	2137.7	2659.1	2322.0	2623.7	2484.0	2236.4	3120.9	456.2	251.4	149.0
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°	9314.3	9314.3	9314.3	9314.3	9314.3	9314.3	9314.3	9314.3	9314.3	9314.3	9314.3
2.5°	9226.7	9196.9	9129.9	9003.3	8932.5	8872.9	8774.2	8716.5	8690.5	8688.6	8699.8
5°	8997.7	8928.8	8755.6	8543.3	8373.9	8219.3	8027.5	7912.1	7830.2	7781.7	7794.8
7.5°	8731.4	8623.4	8351.5	8012.6	7740.8	7441.0	7144.9	6968.0	6830.2	6727.8	6746.4
10°	8548.9	8400.0	8003.3	7515.5	7063.0	6627.2	6219.4	5975.5	5781.8	5632.9	5644.0
12.5°	8487.5	8286.4	7737.1	7085.3	6450.3	5854.5	5321.9	4947.6	4748.4	4578.9	4592.0
15°	8496.8	8226.8	7513.6	6698.0	5899.2	5148.7	4502.6	4065.0	3795.0	3677.7	3679.5
17.5°	8504.2	8157.9	7279.0	6282.7	5353.6	4489.5	3787.5	3344.3	3089.2	2981.2	2983.1
20°	8480.0	8046.2	6988.5	5806.0	4783.8	3884.4	3204.7	2828.5	2634.9	2551.1	2551.1
22.5°	8448.4	7914.0	6660.8	5327.5	4221.4	3359.2	2787.6	2500.8	2389.1	2333.2	2331.4
25°	8463.3	7815.3	6325.6	4835.9	3703.7	2940.3	2510.1	2320.2	2245.7	2210.3	2208.5
27.5°	8543.3	7768.7	6016.5	4346.2	3251.2	2625.6	2323.9	2189.8	2141.4	2119.1	2119.1
30°	8688.6	7768.7	5694.3	3929.0	2875.1	2392.8	2180.5	2089.3	2055.8	2040.9	2040.9
32.5°	8941.8	7811.5	5383.3	3515.7	2575.3	2210.3	2061.4	1999.9	1973.8	1966.4	1966.4
35°	9377.6	7956.8	5079.8	3124.6	2333.2	2061.4	1947.8	1912.4	1893.8	1891.9	1897.5
37.5°	9990.2	8252.9	4794.9	2836.0	2161.9	1940.3	1852.8	1824.9	1813.7	1823.0	1830.5
40°	10761.1	8655.1	4536.1	2575.3	2031.6	1843.5	1765.3	1746.7	1741.1	1754.1	1765.3
42.5°	11692.2	9198.8	4323.8	2387.2	1931.0	1761.6	1690.8	1668.4	1662.9	1677.8	1692.7
45°	12699.6	9783.5	4174.8	2247.6	1852.8	1700.1	1625.6	1601.4	1590.2	1597.7	1614.4
47.5°	13615.7	10336.6	4115.3	2148.9	1778.3	1648.0	1567.9	1538.1	1519.5	1515.8	1528.8
50°	14388.5	10748.1	4143.2	2089.3	1718.7	1590.2	1512.0	1478.5	1450.6	1433.8	1443.1
52.5°	14950.9	11006.9	4169.3	2063.2	1672.2	1526.9	1450.6	1418.9	1381.7	1353.8	1353.8
55°	15358.7	11066.5	4111.5	2042.7	1636.8	1458.0	1381.7	1351.9	1314.6	1283.0	1279.3
57.5°	15518.8	10898.9	3897.4	2012.9	1612.6	1392.9	1309.1	1286.7	1255.1	1217.8	1216.0
60°	15302.8	10381.2	3484.0	1949.6	1580.9	1338.9	1236.4	1221.5	1206.6	1171.3	1169.4
62.5°	14435.0	9245.4	2949.6	1821.1	1517.6	1281.1	1169.4	1176.9	1178.7	1154.5	1150.8
65°	12861.6	7684.9	2428.2	1653.6	1422.6	1212.2	1100.5	1135.9	1156.4	1152.6	1147.1
67.5°	10574.9	5981.1	2057.6	1476.7	1297.9	1117.3	1026.0	1067.0	1083.7	1096.8	1093.1
70°	7848.8	4217.7	1702.0	1290.4	1147.1	1005.5	929.2	949.7	938.5	953.4	959.0
72.5°	4375.9	2530.6	1387.3	1104.2	990.6	875.2	821.2	817.5	793.3	793.3	793.3
74°	2625.6	1856.5	1219.7	988.8	895.7	789.5	743.0	726.2	703.9	705.7	703.9
75°	2111.6	1595.8	1119.1	912.4	828.6	739.3	692.7	670.4	653.6	653.6	651.7
77.5°	1333.3	1212.2	901.3	726.2	662.9	608.9	577.3	547.5	547.5	545.6	543.7
80°	1007.4	964.6	702.0	549.3	508.4	467.4	446.9	433.9	433.9	439.5	437.6
82.5°	690.8	726.2	493.5	383.6	363.1	333.3	329.6	331.5	325.9	318.4	316.6
85°	504.6	545.6	333.3	242.1	221.6	203.0	217.9	225.3	216.0	199.2	191.8
87.5°	193.7	357.5	178.8	100.6	93.1	80.1	93.1	96.8	104.3	81.9	83.8
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)