

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: P319772

Luminaire Tested: **GAN-SA8C-760-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P319772
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-SA8C-760-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 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: 56689 lumens
Efficiency: N/A
Efficacy: 127.4 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 445
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

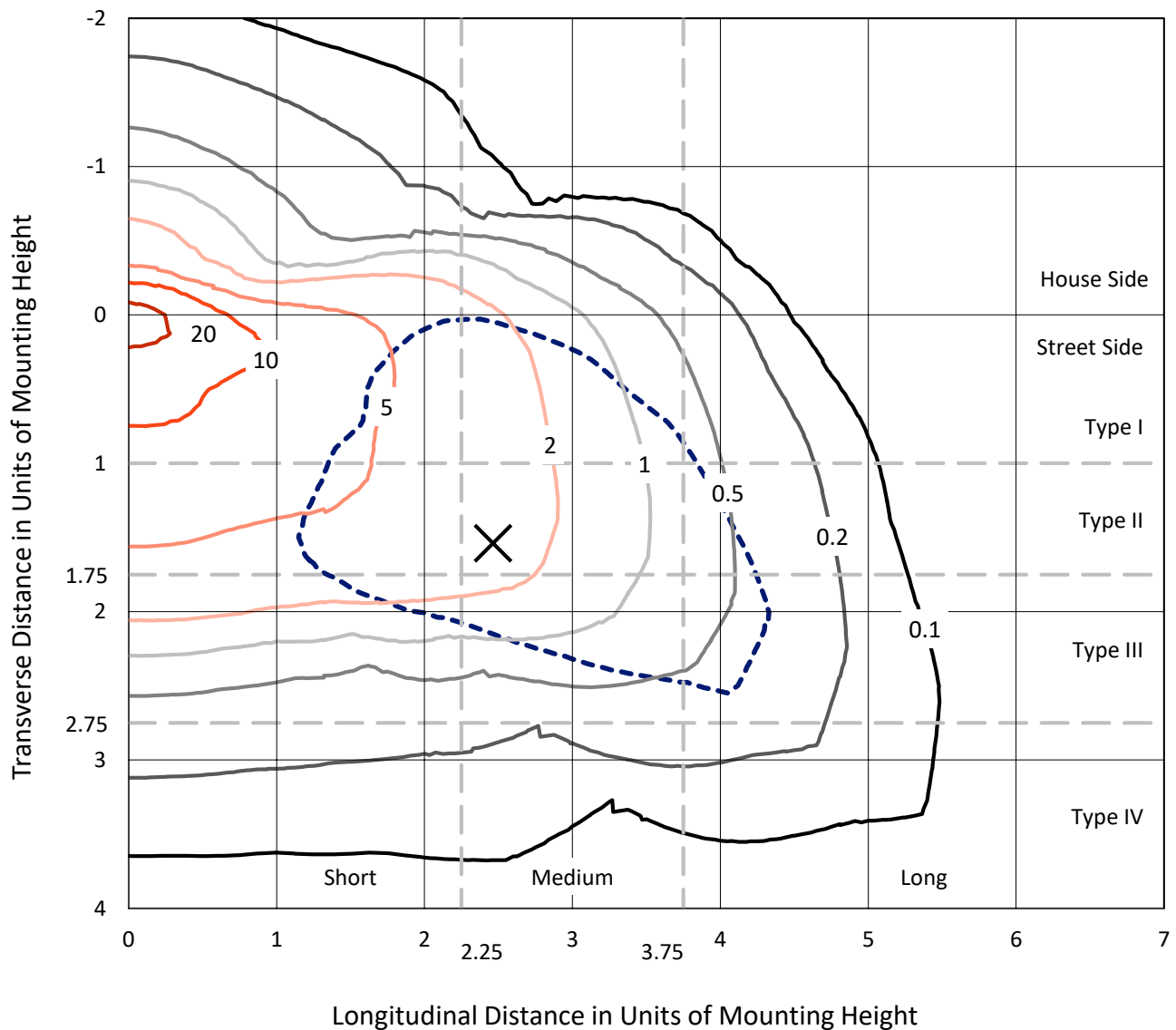


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Iso-Footcandle Lines of Horizontal Illumination

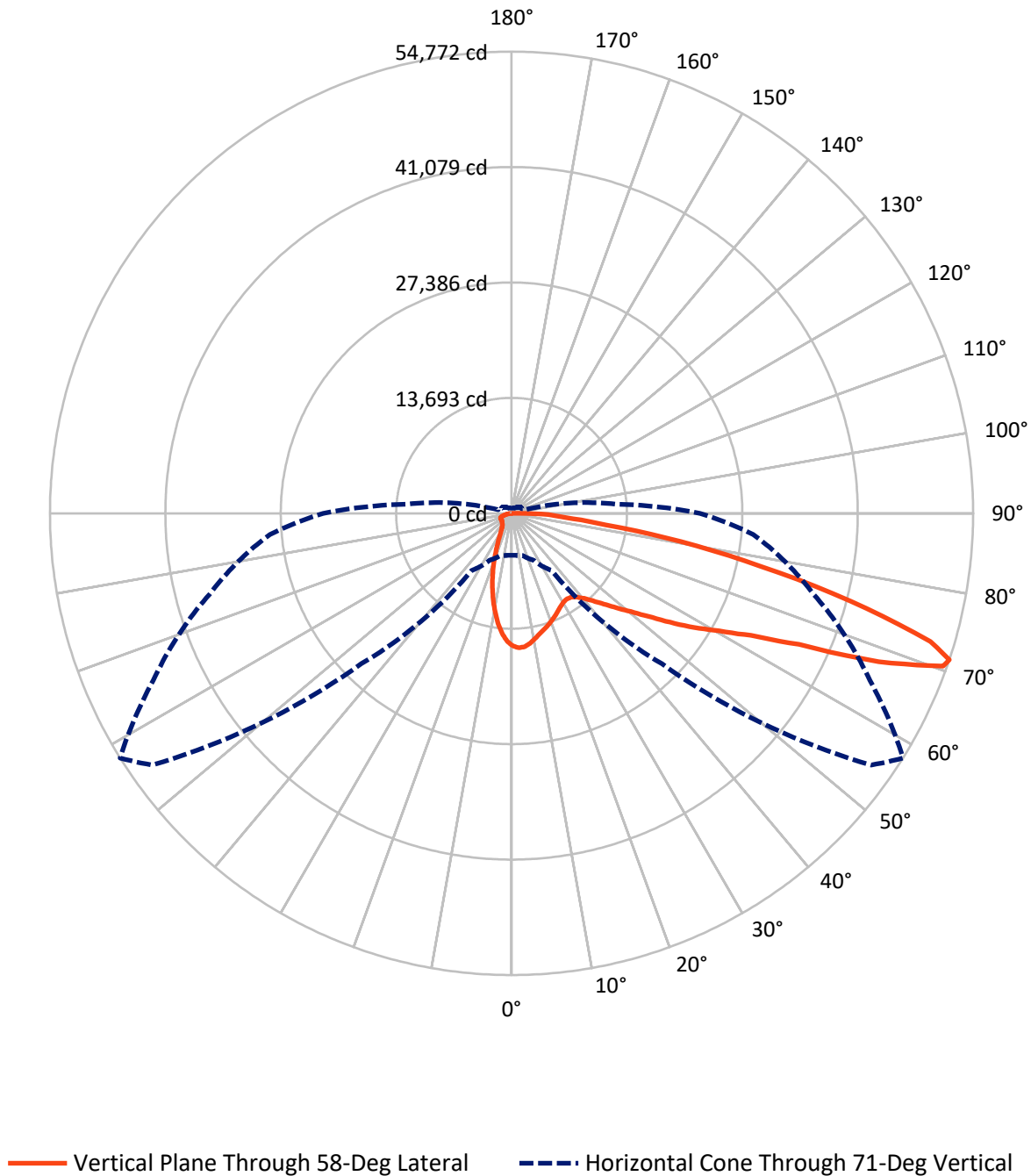
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 25.1 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	8475.4	0.0	8475.4
	% Fixture	15.0	0.0	15.0
Street Side	Lumens	48213.6	0.0	48213.6
	% Fixture	85.0	0.0	85.0
Total	Lumens	56689.0	0.0	56689.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1355.0	2.4
10°-20°	3013.0	5.3
20°-30°	3829.3	6.8
30°-40°	4877.7	8.6
40°-50°	6916.8	12.2
50°-60°	10704.0	18.9
60°-70°	14572.2	25.7
70°-80°	9721.3	17.1
80°-90°	1699.6	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°	56689.0	100.0
0°-180°	56689.0	100.0

Coefficient of Utilization



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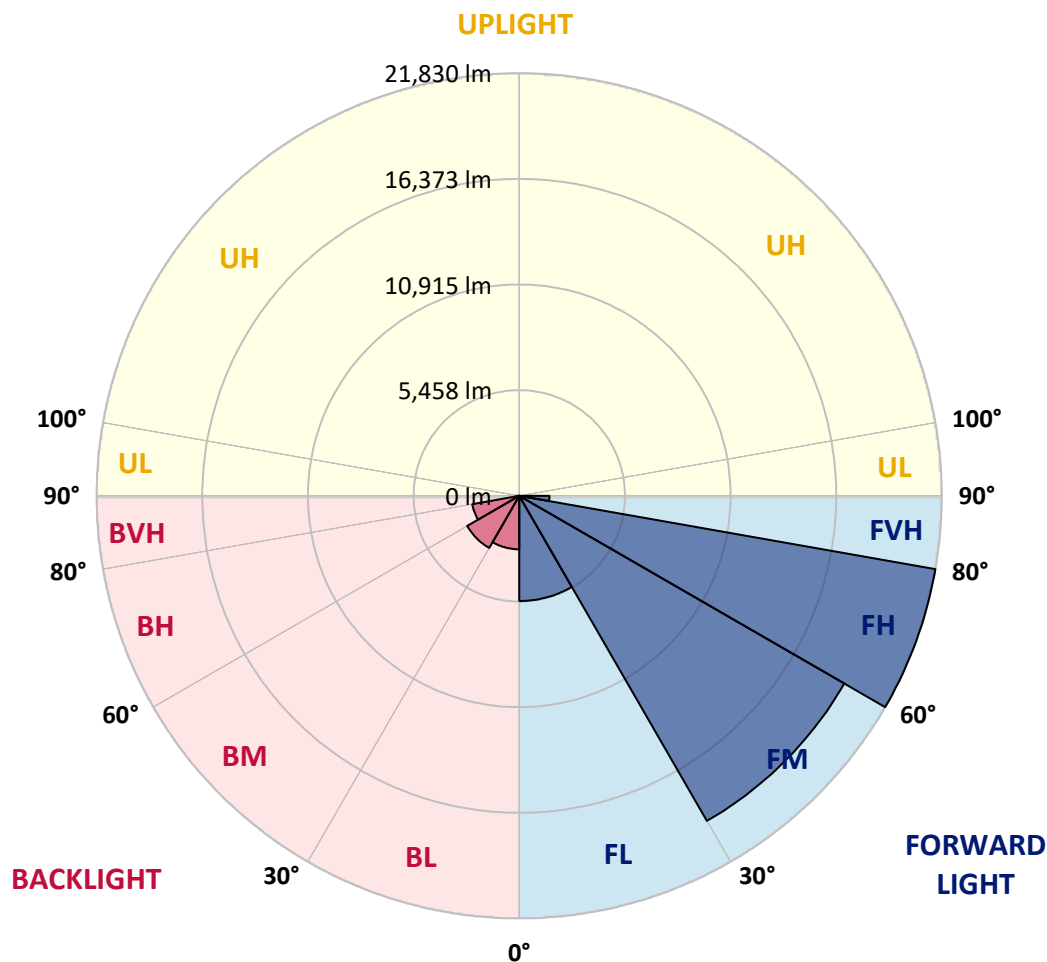
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	5434.6	9.6			
FM	(30°-60°)	19390.4	34.2			
FH	(60°-80°)	21830.2	38.5			G5
FVH	(80°-90°)	1558.4	2.7			G5
BL	(0°-30°)	2762.7	4.9	B4/5000		
BM	(30°-60°)	3108.2	5.5	B3/5000		
BH	(60°-80°)	2463.3	4.3	B3/2500		G3/2500
BVH	(80°-90°)	141.2	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°	15706.6	15706.6	15706.6	15706.6	15706.6	15706.6	15706.6	15706.6	15706.6	15706.6	15706.6
2.5°	16123.3	16101.6	16109.5	16093.7	16056.2	16018.6	15963.4	15973.2	15896.2	15781.7	15639.5
5°	15819.2	15811.3	15870.5	15904.1	15931.8	15910.0	15894.2	15914.0	15801.4	15643.5	15396.6
7.5°	15181.4	15094.5	15169.5	15282.1	15388.7	15469.7	15576.3	15590.1	15519.0	15353.2	15029.3
10°	14275.0	14192.1	14302.6	14478.4	14691.7	14885.2	15100.4	15139.9	15153.7	15003.7	14610.7
12.5°	13335.0	13271.9	13382.4	13629.3	13982.7	14280.9	14624.5	14683.8	14806.2	14705.5	14223.7
15°	12493.8	12470.1	12604.4	12847.3	13254.1	13710.2	14205.9	14314.5	14521.8	14488.3	13921.5
17.5°	11767.1	11761.2	11863.9	12118.6	12568.9	13145.5	13789.2	13972.9	14280.9	14320.4	13672.7
20°	11226.1	11214.2	11285.3	11472.9	11937.0	12590.6	13339.0	13591.8	14036.1	14174.3	13416.0
22.5°	10935.8	10933.8	10935.8	11024.7	11403.8	12012.0	12900.6	13208.7	13797.1	14057.8	13131.7
25°	10886.4	10880.5	10837.1	10827.2	11042.4	11528.2	12466.2	12805.8	13570.0	13976.8	12861.1
27.5°	11014.8	11022.7	10965.4	10872.6	10916.1	11210.3	12089.0	12452.4	13388.4	13961.0	12673.5
30°	11281.4	11277.4	11228.1	11131.3	11046.4	11091.8	11820.5	12183.8	13265.9	14030.1	12545.2
32.5°	11575.6	11597.3	11587.5	11534.1	11407.8	11226.1	11739.5	12094.9	13230.4	14196.0	12489.9
35°	11929.1	11952.8	12023.9	12065.3	11917.2	11625.0	11913.3	12221.3	13333.1	14508.0	12578.7
37.5°	12264.8	12326.0	12525.4	12701.2	12574.8	12249.0	12375.3	12594.5	13651.0	14999.7	12817.7
40°	12651.8	12705.1	13030.9	13404.2	13384.4	13046.7	13119.8	13265.9	14211.8	15704.7	13250.1
42.5°	13032.9	13139.6	13611.5	14140.7	14292.8	13994.6	14111.1	14188.1	15001.7	16638.7	14004.5
45°	13540.4	13654.9	14310.5	14948.4	15303.8	15136.0	15321.6	15351.2	15994.9	17910.4	15100.4
47.5°	14308.6	14438.9	15203.1	15872.5	16415.6	16433.3	16739.4	16727.6	17235.0	19365.7	16480.7
50°	15505.2	15692.8	16318.8	16944.8	17604.3	17971.6	18380.4	18323.1	18722.0	20915.9	18070.3
52.5°	17073.1	17160.0	17624.1	18086.1	18905.6	19729.1	20315.6	20264.2	20408.4	22509.4	19875.2
55°	18698.3	18763.5	18955.0	19207.8	20309.6	21652.4	22892.5	22811.6	22446.2	24164.2	21658.3
57.5°	20159.6	20291.9	20424.2	20528.8	21723.5	23662.6	25528.7	25534.6	24657.9	25949.3	23500.7
60°	20386.6	20503.2	21377.9	22203.4	24142.5	26344.3	28350.5	28291.3	26946.5	27886.5	25554.4
62.5°	18021.0	18283.6	19744.9	21940.7	26472.6	31249.4	31950.4	31877.3	29683.5	30273.9	27945.7
65°	12914.4	13212.6	14976.0	18275.7	25343.1	36654.1	38447.1	37463.7	33415.6	33210.2	30745.8
67.5°	7450.5	7521.6	8285.8	10935.8	19296.6	36936.5	48358.1	46981.7	39211.3	36541.5	32116.3
70°	5509.4	5507.4	5689.1	6729.7	10442.1	30145.5	53071.6	54305.8	45313.1	37637.5	30179.1
71°	4982.1	4988.1	5191.4	6125.5	8270.0	25232.5	52070.5	54771.8	46920.5	37096.4	28777.1
72.5°	4261.4	4281.1	4563.5	5493.6	6956.8	17400.9	47757.8	51975.7	47682.7	35761.5	26583.2
75°	3232.6	3278.0	3669.0	4630.6	6358.5	8824.9	35050.7	41503.9	42359.0	31555.5	19752.8
77.5°	2306.4	2357.8	2800.1	3894.1	6044.5	6650.7	23473.1	30273.9	31172.4	20222.7	8909.8
80°	1457.3	1518.5	1852.3	3098.3	5679.2	6315.0	14750.9	20349.1	16998.1	6471.0	2266.9
82.5°	855.0	902.4	1149.3	2024.1	4638.5	6082.0	8678.7	11279.4	6615.2	1954.9	1030.8
85°	495.6	517.4	716.8	1289.5	3368.8	5740.4	6376.3	6305.2	2871.2	955.7	487.7
87.5°	231.0	256.7	424.6	673.4	1870.0	4160.7	5039.4	4354.2	1785.1	448.3	229.1
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°	15706.6	15706.6	15706.6	15706.6	15706.6	15706.6	15706.6	15706.6	15706.6	15706.6	15706.6
2.5°	15570.4	15536.8	15396.6	15272.2	15141.9	14972.1	14784.5	14760.8	14646.2	14668.0	14628.5
5°	15262.3	15177.4	14839.8	14533.7	14172.3	13848.5	13497.0	13335.0	13102.0	13086.2	13027.0
7.5°	14822.0	14664.0	14140.7	13560.2	12979.6	12426.7	11879.7	11520.3	11153.0	10997.0	10983.2
10°	14326.3	14057.8	13287.7	12428.7	11591.4	10783.8	10001.8	9423.2	8901.9	8655.0	8645.2
12.5°	13856.4	13459.5	12403.0	11234.0	10088.7	9042.1	7969.8	7209.6	6556.0	6336.8	6244.0
15°	13457.5	12898.6	11542.0	10047.2	8657.0	7203.7	5983.3	5183.5	4579.3	4370.0	4330.5
17.5°	13070.4	12351.7	10659.3	8848.6	7168.1	5570.6	4348.3	3753.9	3432.0	3347.1	3345.1
20°	12685.4	11788.9	9737.2	7622.3	5728.6	4166.6	3343.1	3076.6	2968.0	2958.1	2942.3
22.5°	12249.0	11192.5	8767.6	6392.1	4470.7	3276.0	2841.6	2734.9	2721.1	2756.7	2756.7
25°	11840.2	10600.1	7784.2	5187.5	3477.4	2733.0	2537.5	2515.7	2553.3	2616.5	2622.4
27.5°	11459.1	10029.4	6824.5	4117.2	2786.3	2407.1	2326.2	2351.8	2419.0	2492.1	2494.0
30°	11145.1	9490.3	5892.5	3244.4	2353.8	2164.3	2150.4	2201.8	2274.8	2332.1	2345.9
32.5°	10902.2	9030.2	4992.0	2608.6	2071.4	1982.6	1994.4	2037.9	2083.3	2114.9	2136.6
35°	10789.7	8635.3	4160.7	2199.8	1891.7	1842.4	1858.2	1881.9	1901.6	1925.3	1943.1
37.5°	10809.4	8329.2	3418.2	1945.1	1771.3	1745.6	1745.6	1745.6	1745.6	1757.5	1759.4
40°	10993.1	8153.5	2813.9	1783.1	1690.3	1662.7	1641.0	1621.2	1605.4	1613.3	1609.4
42.5°	11463.0	8137.7	2371.6	1680.5	1625.2	1579.7	1536.3	1508.7	1488.9	1496.8	1500.8
45°	12260.8	8335.1	2073.4	1607.4	1564.0	1494.8	1439.5	1409.9	1396.1	1421.8	1425.7
47.5°	13293.6	8765.6	1891.7	1554.1	1506.7	1415.8	1356.6	1329.0	1332.9	1370.4	1380.3
50°	14624.5	9464.7	1804.9	1520.5	1467.2	1348.7	1287.5	1263.8	1275.6	1329.0	1340.8
52.5°	16085.8	10471.8	1814.7	1510.6	1441.5	1299.3	1234.2	1206.5	1226.3	1275.6	1285.5
55°	17772.2	11682.2	1978.6	1524.5	1404.0	1267.7	1190.7	1143.3	1159.1	1204.6	1212.5
57.5°	19646.1	13068.5	2308.4	1520.5	1356.6	1238.1	1145.3	1074.2	1086.1	1113.7	1121.6
60°	21597.1	14743.0	2819.8	1532.4	1334.9	1202.6	1084.1	995.2	991.3	1015.0	1018.9
62.5°	23939.1	16680.2	3404.4	1540.3	1348.7	1157.2	1003.1	916.3	904.4	910.3	914.3
65°	26352.2	18082.2	3185.2	1508.7	1392.2	1119.6	932.1	839.2	817.5	813.6	815.5
67.5°	26427.2	16579.5	2233.4	1445.5	1409.9	1099.9	878.7	774.1	738.5	724.7	722.7
70°	23700.2	13469.3	1739.7	1378.3	1338.8	1068.3	829.4	720.8	667.4	645.7	643.7
71°	22369.2	12399.0	1648.9	1344.8	1285.5	1036.7	807.6	697.1	641.8	618.1	614.1
72.5°	20282.0	11115.5	1538.3	1291.4	1182.8	955.7	766.2	663.5	606.2	578.6	572.7
75°	14555.4	7268.8	1321.1	1151.2	979.4	762.2	671.4	596.4	547.0	513.4	509.5
77.5°	5608.1	2892.9	999.2	957.7	750.4	596.4	552.9	515.4	479.8	446.3	444.3
80°	1733.8	1293.4	728.7	720.8	543.0	444.3	430.5	420.6	406.8	371.2	363.3
82.5°	926.1	742.5	501.6	466.0	355.4	296.2	312.0	315.9	317.9	280.4	276.5
85°	442.3	393.0	282.4	264.6	207.3	165.9	191.5	207.3	209.3	171.8	159.9
87.5°	211.3	205.4	132.3	100.7	77.0	55.3	67.1	82.9	90.8	65.2	57.3
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)