

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: P458114

Luminaire Tested: **GLAN-SA9C-730-U-SL2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458114
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-14)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9C-730-U-SL2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 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: 57939 lumens
Efficiency: N/A
Efficacy: 120.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B4 - U0 - G5

Input Watts (W): 481
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

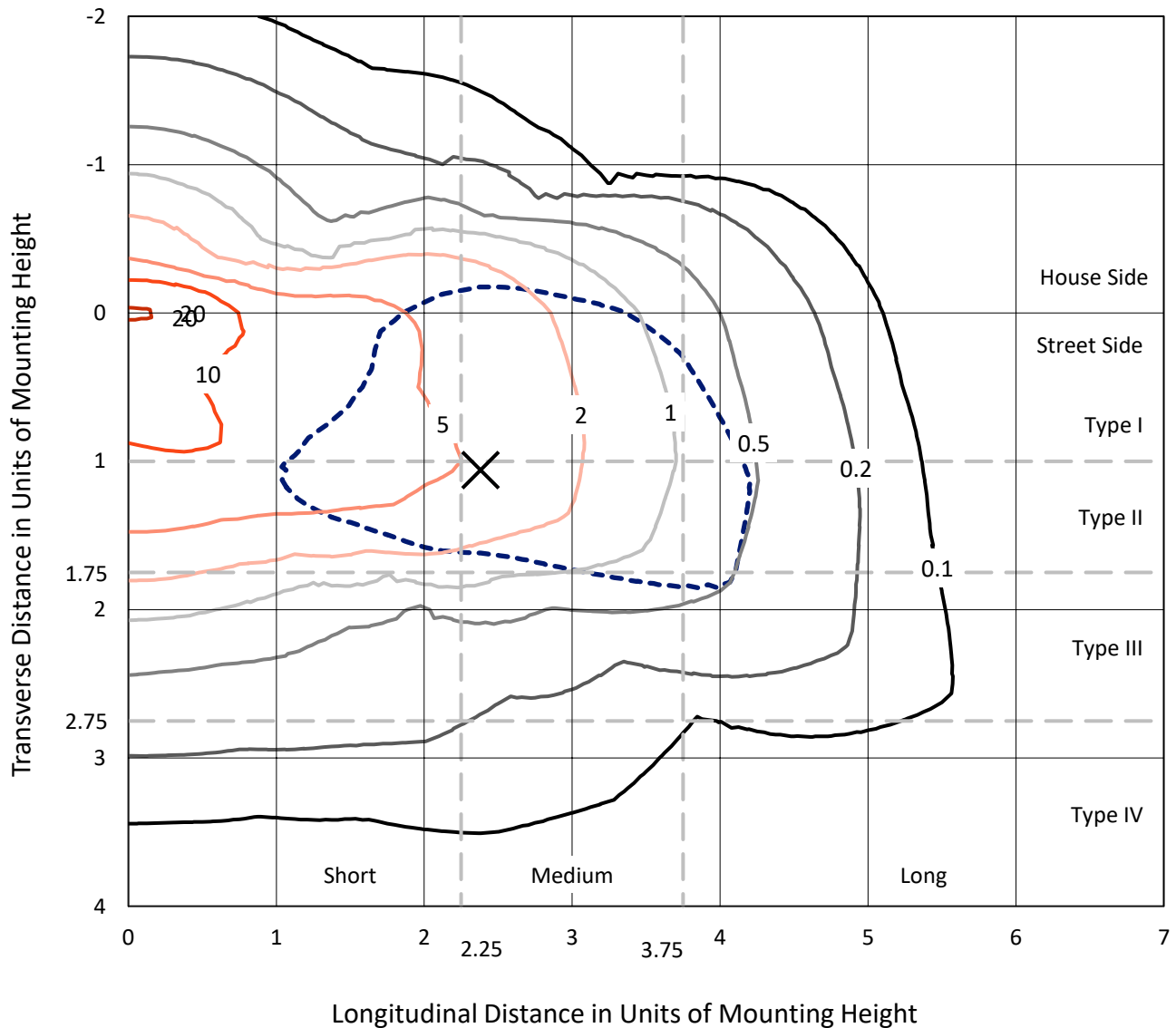


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

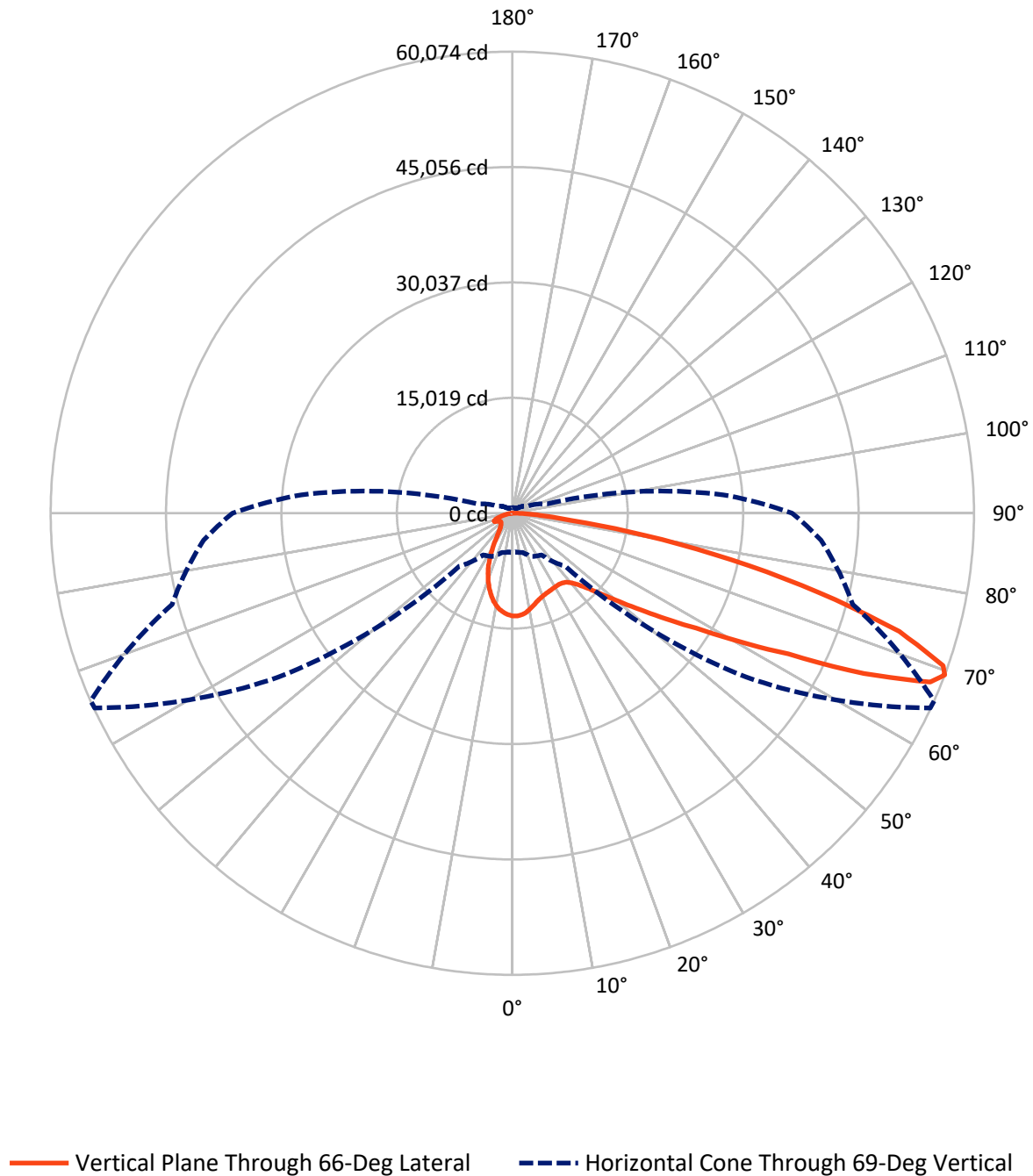


Based on 25 foot mounting height. Maximum calculated value = 21.4 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10896.1	0.0	10896.1
	% Fixture	18.8	0.0	18.8
Street Side	Lumens	47042.8	0.0	47042.8
	% Fixture	81.2	0.0	81.2
Total	Lumens	57939.0	0.0	57939.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1161.9	2.0
10°-20°	2755.9	4.8
20°-30°	3751.8	6.5
30°-40°	5041.6	8.7
40°-50°	7527.9	13.0
50°-60°	11974.4	20.7
60°-70°	14727.9	25.4
70°-80°	9582.6	16.5
80°-90°	1415.1	2.4
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°	57939.0	100.0
0°-180°	57939.0	100.0

Coefficient of Utilization



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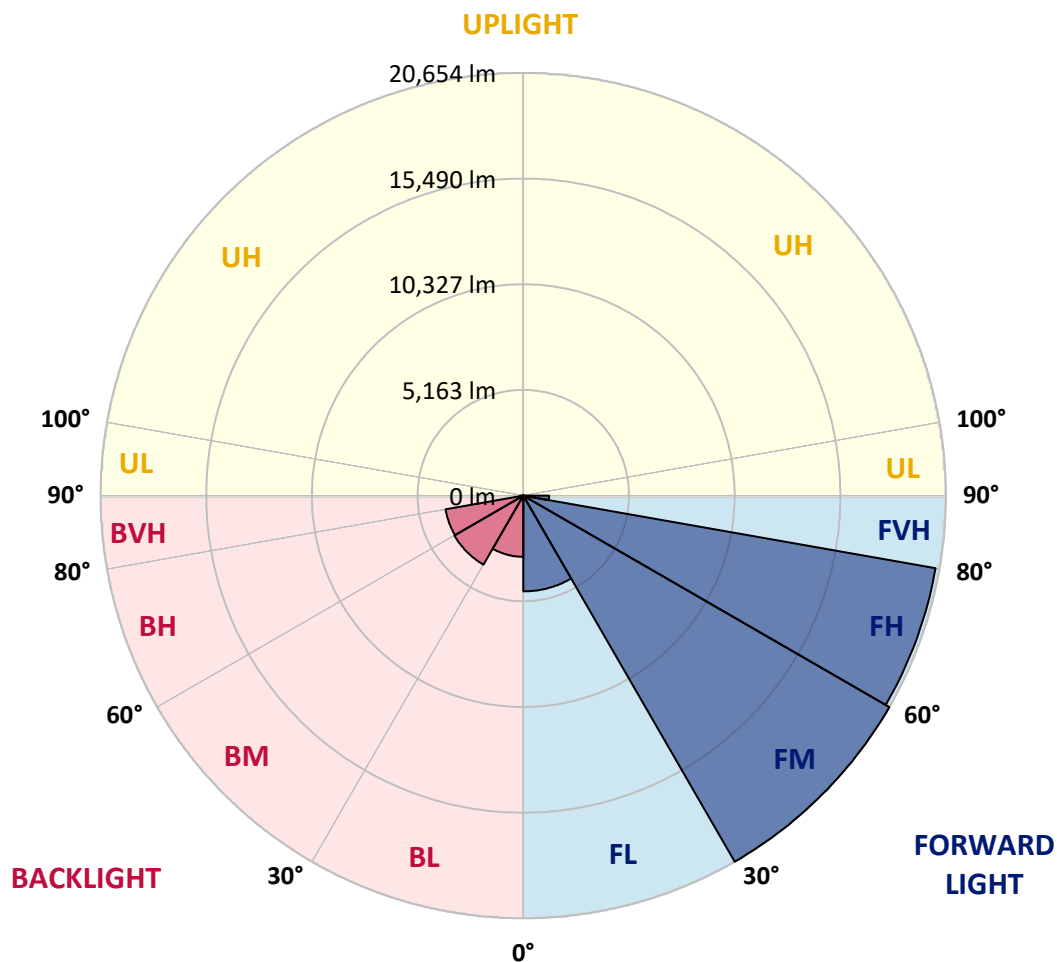
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4678.5	8.1			
FM	(30°-60°)	20653.5	35.6			
FH	(60°-80°)	20452.8	35.3			G5
FVH	(80°-90°)	1258.1	2.2			G5
BL	(0°-30°)	2991.0	5.2	B4/5000		
BM	(30°-60°)	3890.4	6.7	B3/5000		
BH	(60°-80°)	3857.7	6.7	B4/5000		G4/5000
BVH	(80°-90°)	157.0	0.3			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°	13379.7	13379.7	13379.7	13379.7	13379.7	13379.7	13379.7	13379.7	13379.7	13379.7	13379.7
2.5°	12911.3	12962.6	13020.4	13084.5	13206.5	13273.8	13322.0	13376.5	13382.9	13411.8	13389.4
5°	11958.3	12019.3	12105.9	12227.8	12410.7	12696.3	12991.5	13232.1	13261.0	13395.8	13434.3
7.5°	11162.6	11197.9	11268.5	11464.2	11724.1	12041.8	12471.7	12959.4	13030.0	13350.8	13463.1
10°	10514.5	10549.8	10633.2	10835.3	11092.0	11489.9	11961.5	12603.3	12661.0	13212.9	13469.6
12.5°	10030.0	10062.1	10151.9	10350.8	10646.0	11018.2	11538.0	12218.2	12301.6	13030.0	13408.6
15°	9661.0	9722.0	9795.8	9959.4	10270.6	10630.0	11133.7	11865.3	11932.7	12837.5	13366.9
17.5°	9503.8	9532.7	9584.0	9734.8	9962.6	10315.5	10822.5	11589.3	11669.6	12702.7	13357.3
20°	9510.2	9539.1	9548.7	9632.1	9795.8	10100.6	10601.1	11371.2	11467.4	12584.0	13373.3
22.5°	9728.4	9731.6	9696.3	9667.4	9731.6	9985.1	10443.9	11207.5	11319.8	12532.7	13386.1
25°	10065.3	10123.0	10071.7	9936.9	9818.2	9940.1	10382.9	11117.7	11223.6	12458.9	13370.1
27.5°	10610.7	10620.4	10578.6	10395.8	10087.7	9997.9	10357.3	11050.3	11140.1	12404.3	13289.9
30°	11342.3	11313.4	11274.9	11072.8	10588.3	10219.3	10411.8	10989.3	11082.4	12324.1	13193.6
32.5°	12083.5	12173.3	12138.0	11900.6	11271.7	10649.2	10588.3	10982.9	11059.9	12263.1	13087.7
35°	12869.6	12911.3	13078.1	12956.2	12311.3	11345.5	10918.8	11082.4	11143.4	12266.4	13013.9
37.5°	13485.6	13597.9	13989.4	14095.2	13488.8	12266.4	11454.6	11364.7	11390.4	12423.6	13042.8
40°	14230.0	14422.5	14926.3	15359.4	14961.5	13463.1	12365.8	11887.7	11919.8	12802.2	13232.1
42.5°	15173.3	15308.1	15985.1	16572.2	16508.1	15045.0	13469.6	12744.4	12760.5	13556.2	13761.5
45°	16277.1	16469.6	17230.0	18112.4	18263.2	16835.4	15064.2	14040.7	14031.1	14727.3	14749.8
47.5°	17688.8	17807.5	18561.6	19524.1	20133.8	19084.6	16999.0	15901.7	15799.0	16434.3	16251.4
50°	18988.3	19174.4	19745.5	20797.9	22315.6	21718.8	19543.4	18314.5	18073.9	18667.4	18359.4
52.5°	19533.8	19729.5	20210.8	21516.7	24186.2	25126.3	22774.4	21192.6	20791.5	21247.1	21134.8
55°	18587.2	18840.7	19289.9	20878.1	25007.6	29056.8	27131.6	24519.9	24227.9	24032.2	24064.3
57.5°	16042.8	16283.5	16889.9	18641.8	24025.8	31909.2	33353.1	28796.9	28171.2	27269.6	27423.6
60°	12211.8	12362.6	12677.0	14618.2	21115.6	32650.4	40418.3	34203.3	33805.5	30494.2	30603.3
62.5°	8672.8	8842.8	9061.0	10030.0	15458.9	30561.6	45949.9	41753.1	40331.7	33834.3	33728.5
65°	7042.8	6927.3	7190.4	7642.8	9070.6	23685.6	47194.8	52232.3	50275.0	38233.3	36763.8
67.5°	5791.5	5669.5	5929.4	6734.8	6898.4	13748.7	42709.2	59034.4	58643.0	43017.3	39847.2
69°	5127.3	5063.1	5290.9	6208.6	6622.5	9763.7	37206.5	59981.0	60074.0	45837.6	40322.1
70°	4620.3	4646.0	4867.4	5942.3	6497.3	8050.3	31800.1	58675.1	59464.4	47246.2	39808.7
72.5°	3401.1	3455.6	3763.6	4921.9	6378.6	6831.0	18924.1	51250.4	52646.2	47329.6	36417.2
75°	2377.5	2351.9	2624.6	3705.9	6025.7	6770.1	11114.5	39635.4	41217.3	40909.2	30600.1
77.5°	1556.2	1597.9	1816.0	2618.2	5069.5	6718.7	7244.9	28119.9	29146.6	27359.5	18099.5
80°	1097.3	1094.1	1216.0	1787.2	3760.4	6455.6	5932.6	17724.1	17464.2	10751.9	5367.9
82.5°	628.9	673.8	815.0	1257.8	2515.5	5682.4	5457.8	8477.0	7739.1	3064.2	1812.8
85°	349.7	365.8	484.5	760.4	1469.5	4280.2	4764.7	3856.7	3638.5	1280.2	779.7
87.5°	112.3	121.9	202.1	385.0	667.4	2021.4	2698.4	1780.8	1642.8	462.0	314.4
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°	13379.7	13379.7	13379.7	13379.7	13379.7	13379.7	13379.7	13379.7	13379.7	13379.7	13379.7
2.5°	13399.0	13437.5	13334.8	13235.3	13145.5	13020.4	12908.1	12815.0	12750.8	12741.2	12709.1
5°	13443.9	13447.1	13251.4	12988.3	12731.6	12449.2	12157.3	11948.7	11753.0	11643.9	11589.3
7.5°	13476.0	13447.1	13094.2	12667.4	12173.3	11659.9	11146.6	10735.9	10418.2	10293.1	10341.2
10°	13463.1	13373.3	12856.7	12173.3	11454.6	10687.7	9949.8	9372.2	8842.8	8570.1	8576.5
12.5°	13392.6	13245.0	12503.8	11618.2	10562.6	9535.9	8406.4	7626.8	7013.9	6651.4	6539.1
15°	13331.6	13074.9	12089.9	10864.2	9551.9	8085.6	6709.1	5746.5	5233.2	4947.6	4944.4
17.5°	13267.4	12911.3	11637.5	10065.3	8390.4	6503.8	5059.9	4325.1	4084.5	4113.4	4065.3
20°	13200.0	12718.8	11165.8	9176.5	6975.4	4851.4	3789.3	3490.9	3558.3	3689.9	3709.1
22.5°	13123.0	12513.4	10658.9	8197.9	5486.6	3651.3	3073.8	3028.9	3202.1	3407.5	3436.4
25°	13004.3	12256.7	10020.4	7174.4	4232.1	2942.3	2692.0	2724.1	2894.1	3067.4	3086.6
27.5°	12837.5	11939.1	9375.4	5897.3	3179.7	2525.1	2461.0	2502.7	2586.1	2692.0	2717.7
30°	12612.9	11579.7	8634.3	4793.6	2547.6	2316.6	2290.9	2313.4	2361.5	2406.4	2419.3
32.5°	12388.3	11233.2	7886.7	3670.6	2271.7	2178.6	2152.9	2152.9	2152.9	2159.4	2162.6
35°	12179.7	10905.9	7084.5	2858.8	2127.3	2069.5	2034.2	1995.7	1989.3	1966.9	1966.9
37.5°	12064.2	10607.5	6231.0	2393.6	2021.4	1979.7	1931.6	1867.4	1832.1	1835.3	1828.9
40°	12086.7	10411.8	5454.6	2130.5	1934.8	1889.8	1816.0	1742.3	1719.8	1719.8	1713.4
42.5°	12340.1	10347.6	4710.2	1992.5	1851.3	1800.0	1707.0	1639.6	1626.7	1623.5	1630.0
45°	12924.1	10504.8	4042.8	1902.7	1780.8	1703.7	1610.7	1549.7	1536.9	1536.9	1533.7
47.5°	14063.1	11015.0	3564.7	1844.9	1729.4	1630.0	1533.7	1472.7	1450.3	1443.9	1443.9
50°	15834.3	12122.0	3208.6	1793.6	1665.2	1562.6	1463.1	1392.5	1357.2	1354.0	1350.8
52.5°	18295.2	13848.2	3070.6	1755.1	1594.7	1492.0	1382.9	1315.5	1270.6	1261.0	1254.5
55°	21173.3	16257.8	3259.9	1726.2	1520.9	1411.8	1299.5	1228.9	1187.2	1167.9	1164.7
57.5°	24507.0	19151.9	3978.6	1687.7	1453.5	1325.1	1216.0	1145.5	1100.5	1078.1	1071.7
60°	27500.6	22126.3	5233.2	1665.2	1395.7	1232.1	1119.8	1055.6	1013.9	991.4	988.2
62.5°	30789.4	24962.7	6731.6	1726.2	1370.1	1142.2	1030.0	972.2	936.9	914.4	914.4
65°	34302.8	27802.2	7723.0	1931.6	1408.6	1071.7	933.7	885.6	853.5	837.4	834.2
67.5°	36670.7	28784.1	6362.6	2143.3	1504.8	994.7	840.6	802.1	782.9	766.8	766.8
69°	36414.0	27542.3	4694.1	2197.9	1533.7	956.2	789.3	760.4	734.8	728.3	721.9
70°	35602.3	26127.4	3933.7	2162.6	1511.2	920.9	757.2	721.9	699.5	693.1	689.8
72.5°	31710.3	22658.9	2929.4	1880.2	1286.6	798.9	670.6	638.5	619.3	609.6	609.6
75°	26345.5	18519.8	2287.7	1495.2	1007.5	673.8	574.3	548.7	532.6	526.2	523.0
77.5°	14765.8	10341.2	1642.8	1171.1	763.6	545.5	481.3	458.8	442.8	436.4	436.4
80°	4113.4	2955.1	965.8	773.3	519.8	413.9	381.8	365.8	343.3	327.3	336.9
82.5°	1549.7	1280.2	551.9	465.2	330.5	275.9	266.3	253.5	243.9	221.4	221.4
85°	754.0	622.5	352.9	247.1	182.9	144.4	138.0	131.6	125.1	109.1	112.3
87.5°	259.9	275.9	154.0	89.8	54.5	35.3	28.9	16.0	16.0	16.0	16.0
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)