

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: P191177

Luminaire Tested: **GAN-AF-09-LED-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191177
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-09-LED-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 4000K, 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: 54439.4 lumens
Efficiency: N/A
Efficacy: 108.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
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: 28.75 FT

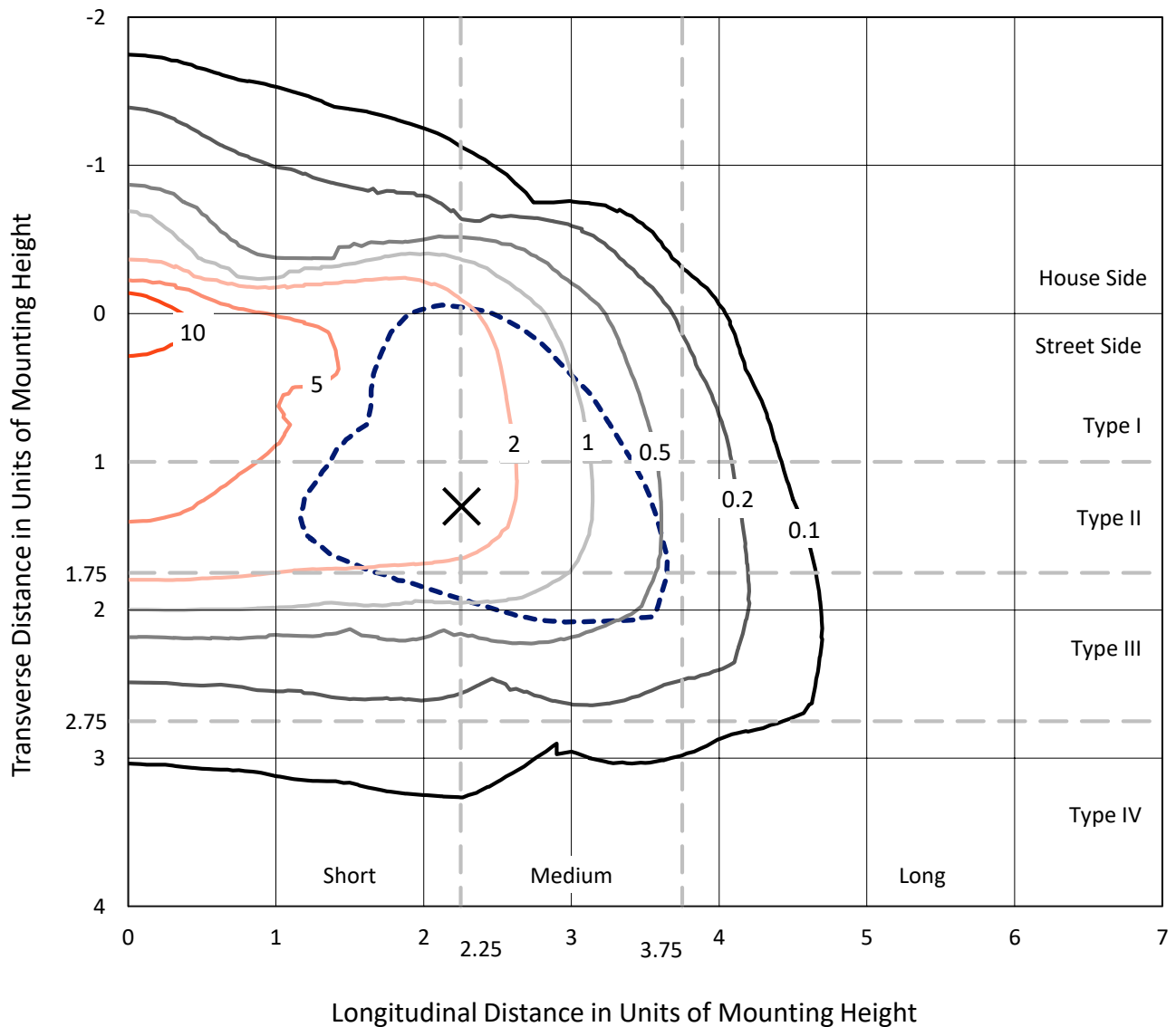


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

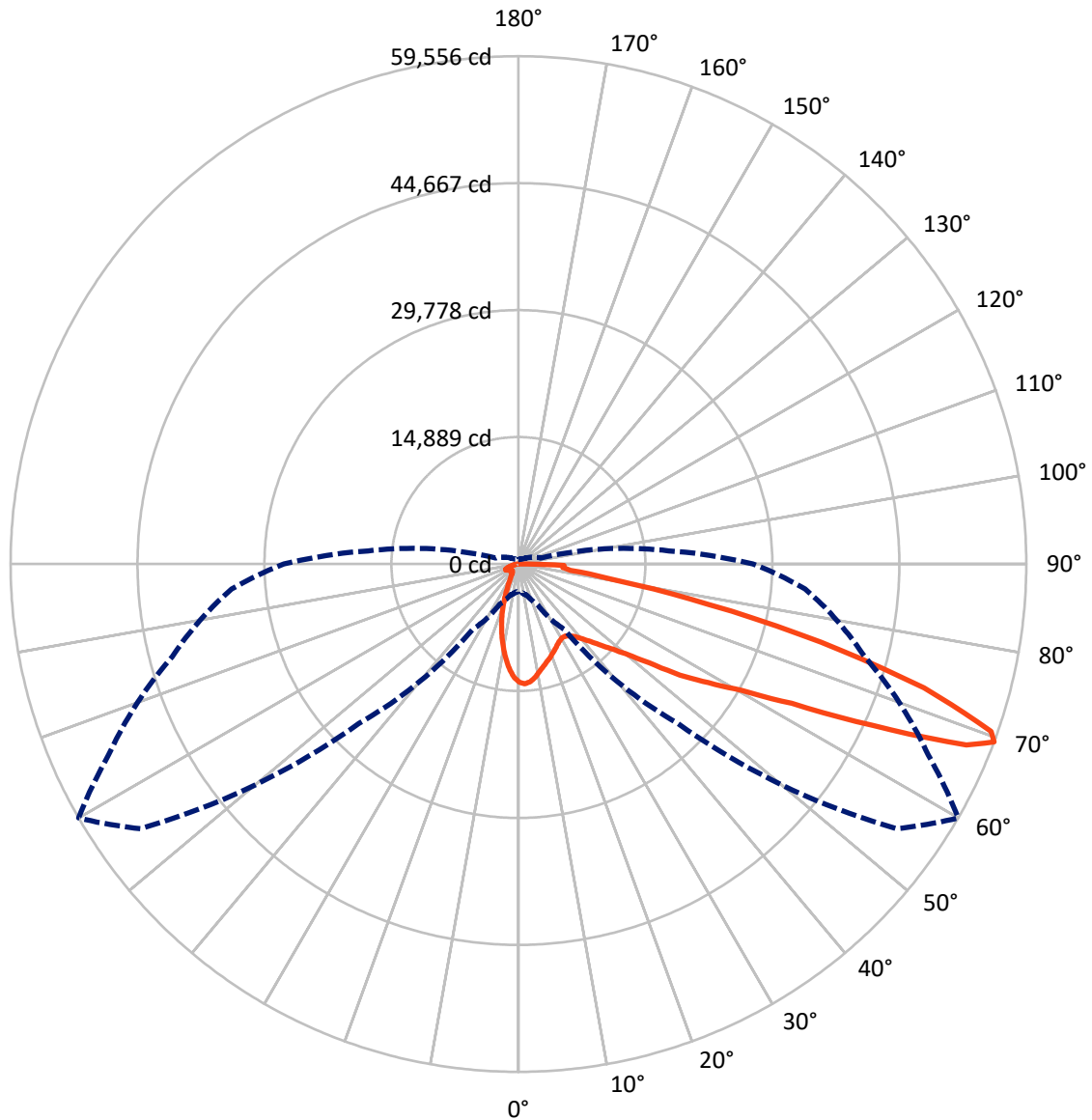


Based on 30 foot mounting height. Maximum calculated value = 15.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7745.0	0.0	7745.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	46694.4	0.0	46694.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	54439.4	0.0	54439.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1172.9	2.2
10°-20°	2499.0	4.6
20°-30°	3184.2	5.8
30°-40°	4377.4	8.0
40°-50°	7102.8	13.0
50°-60°	11391.1	20.9
60°-70°	15160.6	27.8
70°-80°	8185.6	15.0
80°-90°	1365.8	2.5
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°	54439.4	100.0
0°-180°	54439.4	100.0

Coefficient of Utilization



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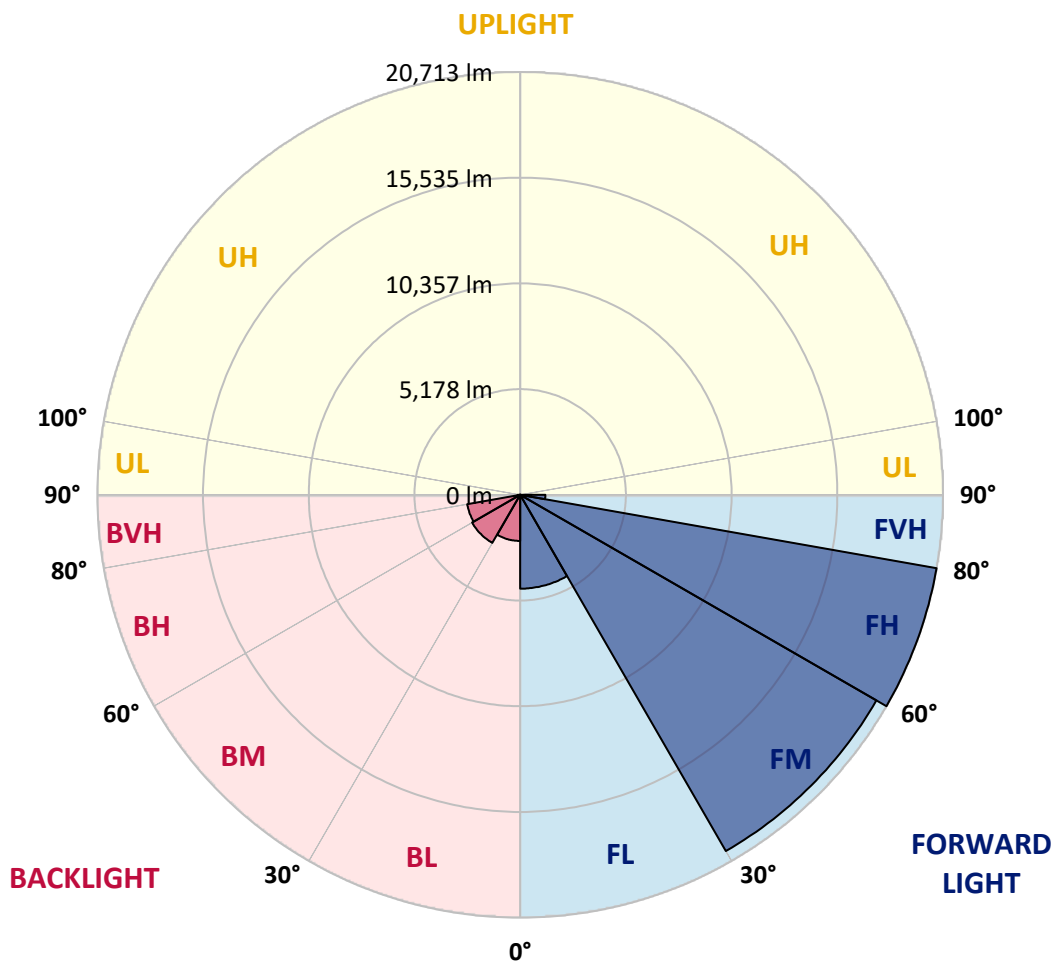
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4596.6	8.4			
FM	(30°-60°)	20150.3	37.0			
FH	(60°-80°)	20713.2	38.0			G5
FVH	(80°-90°)	1234.3	2.3			G5
BL	(0°-30°)	2259.5	4.2	B3/2500		
BM	(30°-60°)	2721.0	5.0	B3/5000		
BH	(60°-80°)	2633.1	4.8	B4/5000		G4/5000
BVH	(80°-90°)	131.5	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°	60°	65°	75°	85°
0°	13872.0	13872.0	13872.0	13872.0	13872.0	13872.0	13872.0	13872.0	13872.0	13872.0	13872.0
2.5°	14156.0	14187.5	14174.4	14166.5	14190.2	14153.3	14077.1	14053.4	14016.6	13929.8	13782.5
5°	13624.8	13719.5	13714.2	13785.2	13903.5	13935.1	13900.9	13906.2	13837.8	13729.9	13485.5
7.5°	12707.0	12746.5	12767.4	12922.6	13138.3	13311.9	13459.1	13506.4	13474.9	13382.9	13067.3
10°	11760.3	11791.9	11841.8	12023.3	12296.8	12536.1	12814.8	12975.2	13043.6	13027.8	12675.5
12.5°	10947.7	10979.2	11045.0	11250.1	11576.2	11870.7	12275.7	12475.6	12638.7	12735.9	12357.2
15°	10219.3	10287.6	10350.7	10587.4	10952.9	11339.5	11797.1	12049.5	12302.0	12520.3	12075.8
17.5°	9651.2	9719.6	9756.4	9972.0	10361.3	10834.6	11371.1	11668.3	11983.8	12341.5	11797.1
20°	9322.5	9354.1	9338.3	9459.2	9809.0	10311.2	10947.7	11292.1	11673.5	12173.1	11518.3
22.5°	9230.5	9233.1	9175.3	9162.1	9388.2	9811.6	10495.4	10913.6	11381.6	12062.7	11279.1
25°	9454.0	9446.1	9288.3	9159.5	9183.1	9430.3	10058.9	10545.3	11137.1	12039.0	11094.9
27.5°	9951.1	9974.7	9740.6	9498.7	9259.3	9251.5	9727.4	10240.2	10937.2	12146.8	11016.1
30°	10647.9	10687.4	10437.5	10129.9	9680.2	9309.4	9598.7	10058.9	10813.6	12370.4	11003.0
32.5°	11410.5	11452.7	11263.3	10939.8	10350.7	9667.0	9688.1	10074.6	10808.3	12683.4	11092.4
35°	12223.1	12270.5	12173.1	11899.7	11244.9	10327.1	10029.9	10329.7	10979.2	13161.9	11331.6
37.5°	13130.4	13204.0	13230.3	12970.0	12270.5	11197.5	10590.0	10813.6	11365.8	13827.3	11770.8
40°	14437.4	14539.9	14532.0	14158.7	13446.0	12373.0	11455.2	11513.1	11968.0	14716.2	12472.9
42.5°	16940.9	16962.0	16307.2	15494.5	14739.8	13609.0	12475.6	12428.2	12799.1	15841.7	13506.4
45°	20125.5	20038.8	18581.9	17011.9	16091.5	15029.1	13803.6	13572.2	13853.6	17214.4	14800.3
47.5°	22768.4	22568.6	20727.7	18560.8	17522.1	16572.7	15363.1	14958.1	15113.3	18771.2	16472.8
50°	23686.2	23536.4	22011.1	19849.4	18876.4	18455.7	17282.8	16709.5	16751.5	20627.8	18432.0
52.5°	23489.0	23468.0	22450.3	20698.8	20143.9	20433.2	20002.0	19226.2	18816.0	22689.6	20546.3
55°	23023.6	23068.3	22700.1	21687.7	21593.0	22342.5	23554.8	22981.5	21706.0	24769.7	22731.6
57.5°	21406.3	21522.0	22331.9	22931.5	23925.6	25040.6	26416.0	26252.9	24817.1	27018.2	25329.9
60°	17245.9	17514.2	19686.4	22689.6	26326.6	29813.6	30429.0	30050.3	28025.4	29808.4	28761.7
62.5°	12083.7	12362.5	14944.9	19644.3	25932.1	35204.6	37603.0	35969.8	32632.7	33918.7	33203.3
65°	6469.2	6603.4	8575.6	13630.0	21892.8	36317.0	48087.8	45602.6	39927.6	38986.2	37003.4
67.5°	3568.6	3642.2	4396.9	6882.1	14021.9	31980.5	54767.4	56645.1	49045.1	42360.2	36311.7
69°	3226.7	3295.1	3789.5	5212.1	9383.0	26442.3	54115.2	59556.2	53042.3	42026.2	33755.6
70°	3155.7	3218.8	3663.3	4804.6	7594.8	21795.5	51929.9	58812.0	53994.2	40829.6	31525.6
72.5°	2840.1	2908.6	3339.8	4315.4	6490.2	10866.2	41134.7	49726.2	49021.3	35401.9	23912.4
75°	2648.2	2711.3	3442.3	4226.0	6214.1	6876.8	27118.1	36648.3	36035.6	24764.4	12893.7
77.5°	1133.4	1128.2	1596.3	3576.4	6306.2	6658.6	14571.5	22894.7	20888.1	10584.8	3702.7
80°	757.4	744.2	757.4	1051.9	5782.8	6695.4	7634.2	11620.9	8778.1	2698.1	1825.0
82.5°	652.1	641.7	665.3	641.7	2032.8	7642.1	6490.2	6180.0	4173.4	1533.2	904.6
85°	439.2	420.7	573.3	575.9	959.8	6790.0	7310.7	5220.1	3376.7	909.9	447.0
87.5°	210.4	205.1	334.0	407.6	562.7	2758.6	8202.2	5348.9	3405.5	465.4	213.0
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°	13872.0	13872.0	13872.0	13872.0	13872.0	13872.0	13872.0	13872.0	13872.0	13872.0	13872.0
2.5°	13737.8	13630.0	13524.8	13398.6	13267.2	13119.9	13046.2	12972.7	12954.2	12933.2	12859.5
5°	13359.2	13206.7	12943.7	12654.4	12349.4	12052.2	11826.0	11684.0	11576.2	11521.0	11423.7
7.5°	12870.1	12646.5	12186.3	11686.7	11173.9	10705.8	10300.8	10045.7	9803.8	9690.6	9561.8
10°	12404.6	12070.6	11355.3	10618.9	9882.6	9175.3	8509.9	8039.2	7621.1	7387.0	7221.3
12.5°	12004.8	11547.3	10555.8	9559.2	8549.3	7542.1	6545.5	5761.8	5107.0	4762.4	4586.3
15°	11615.6	11063.4	9795.9	8530.9	7234.5	5864.4	4554.8	3665.8	3124.2	2908.6	2834.9
17.5°	11263.3	10555.8	9033.3	7494.9	5877.5	4220.8	3061.1	2571.9	2364.1	2293.1	2269.5
20°	10881.9	10043.0	8241.7	6411.3	4462.7	2950.6	2390.4	2174.8	2090.7	2069.6	2059.1
22.5°	10513.8	9538.1	7484.3	5251.6	3205.7	2277.4	2053.9	1964.5	1951.3	1969.7	1969.7
25°	10200.9	9085.8	6666.5	4039.3	2353.6	1917.1	1838.2	1817.2	1867.1	1935.5	1948.6
27.5°	9966.8	8715.0	5796.0	2982.1	1875.1	1667.3	1664.6	1698.8	1822.4	1953.9	1980.2
30°	9806.4	8362.6	4865.1	2151.2	1572.6	1467.4	1509.5	1583.1	1764.6	1951.3	2001.2
32.5°	9724.9	8102.3	3894.7	1664.6	1346.4	1288.6	1359.6	1449.0	1627.8	1801.4	1867.1
35°	9788.0	7910.3	2979.5	1388.6	1188.7	1144.0	1217.6	1304.4	1409.5	1483.2	1533.2
37.5°	10024.6	7834.1	2248.4	1243.9	1080.8	1038.7	1096.6	1146.6	1188.7	1209.6	1233.4
40°	10534.9	7915.6	1801.4	1170.3	1020.4	967.7	991.4	1009.9	1036.1	1057.1	1067.7
42.5°	11286.9	8160.2	1614.6	1141.3	988.8	912.6	907.3	915.1	949.3	988.8	996.7
45°	12338.8	8591.5	1601.5	1159.7	973.0	867.9	844.1	854.7	907.3	967.7	978.2
47.5°	13682.7	9248.9	1706.7	1215.0	986.1	844.1	804.8	817.8	883.6	965.2	978.2
50°	15310.5	10166.7	1882.9	1296.5	1044.0	849.5	791.6	799.4	867.9	957.3	970.4
52.5°	17232.8	11468.4	2074.9	1375.4	1104.5	883.6	802.1	783.7	846.8	925.7	941.4
55°	19370.8	13138.3	2272.1	1446.4	1136.1	925.7	823.1	762.6	807.3	873.1	886.2
57.5°	21995.3	15473.5	2613.9	1514.8	1157.1	954.6	844.1	741.6	757.4	804.8	815.2
60°	25548.1	18776.5	3216.2	1627.8	1204.4	965.2	841.5	723.2	707.4	733.7	739.0
62.5°	29805.7	22363.4	3718.5	1769.8	1283.3	973.0	825.7	710.0	665.3	665.3	670.5
65°	32332.9	23323.4	3439.8	1888.2	1349.1	965.2	807.3	696.9	633.8	604.9	607.4
67.5°	30189.6	20512.1	2947.9	1911.8	1346.4	928.3	778.4	673.2	602.2	557.5	554.8
69°	27504.7	17698.3	2727.1	1848.7	1283.3	881.0	741.6	646.9	578.6	531.2	528.6
70°	25340.3	15981.0	2582.4	1780.3	1215.0	846.8	712.7	623.3	560.2	515.5	510.1
72.5°	18424.1	10471.7	2206.4	1530.5	1002.0	710.0	615.4	547.0	499.6	473.3	468.1
75°	9206.8	4993.9	1790.9	1241.2	767.9	568.0	504.9	457.6	433.9	428.6	426.1
77.5°	3024.3	2287.9	1280.7	925.7	570.7	444.5	407.6	373.4	368.2	383.9	378.7
80°	1662.0	1330.7	812.6	612.7	389.2	326.1	320.8	302.4	310.3	336.7	331.3
82.5°	846.8	691.6	502.3	368.2	263.0	234.1	255.1	244.6	255.1	278.8	276.1
85°	418.2	378.7	318.2	223.5	173.6	149.9	181.5	189.3	194.6	213.0	213.0
87.5°	241.9	223.5	168.3	105.2	86.7	78.9	105.2	102.6	121.0	131.4	128.9
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)