

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: P192917

Luminaire Tested: **GAN-AF-09-LED-U-SL3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192917
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-SL3-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 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: 51470.9 lumens
Efficiency: N/A
Efficacy: 102.7 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - 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

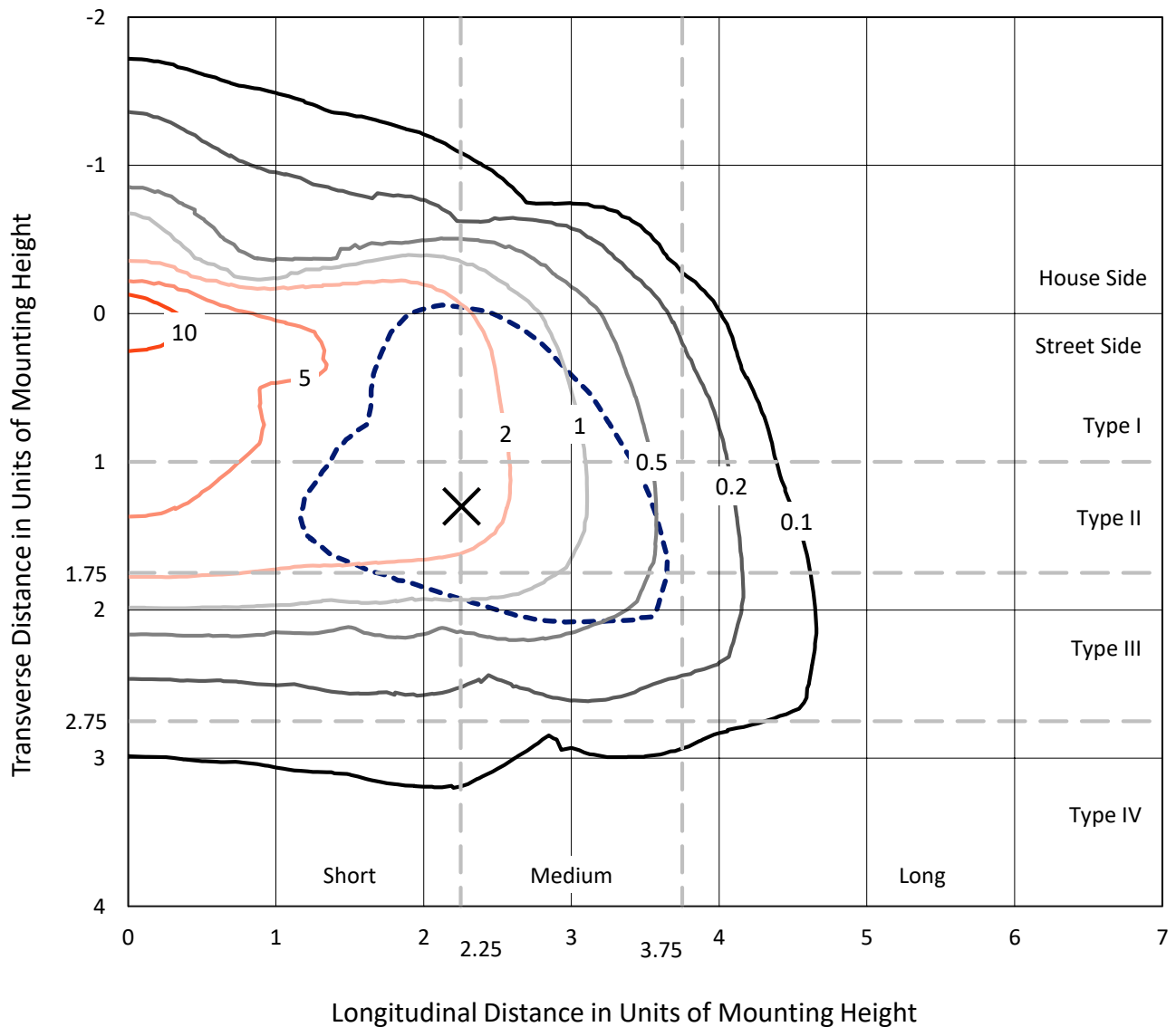


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

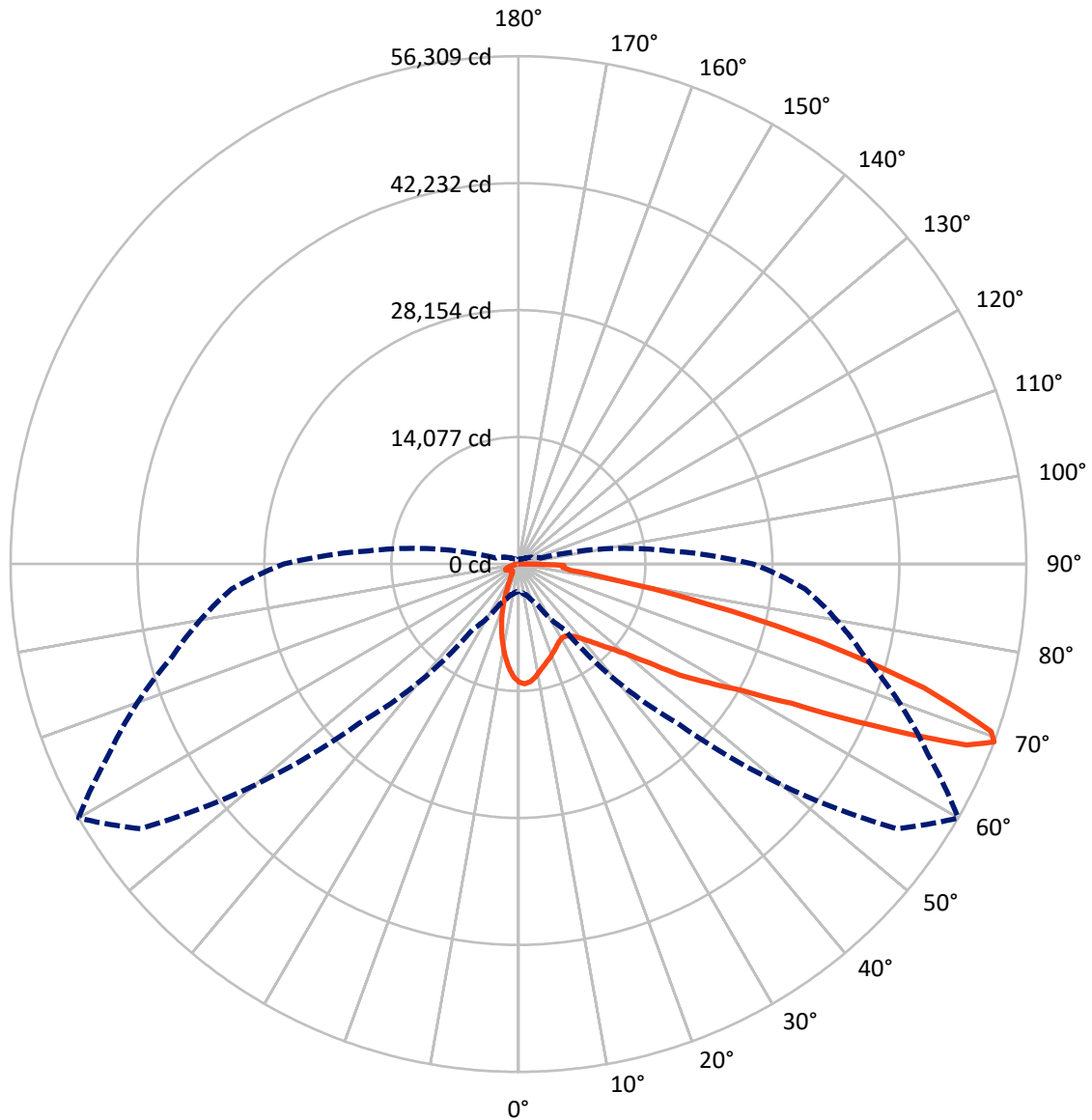


Based on 30 foot mounting height. Maximum calculated value = 14.6 fc
 Type III - Medium - Non-Cutoff

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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	7322.7	0.0	7322.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	44148.3	0.0	44148.3
	% Fixture	85.8	0.0	85.8
Total	Lumens	51470.9	0.0	51470.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1109.0	2.2
10°-20°	2362.7	4.6
20°-30°	3010.6	5.8
30°-40°	4138.7	8.0
40°-50°	6715.5	13.0
50°-60°	10769.9	20.9
60°-70°	14334.0	27.8
70°-80°	7739.2	15.0
80°-90°	1291.3	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°	51470.9	100.0
0°-180°	51470.9	100.0

Coefficient of Utilization



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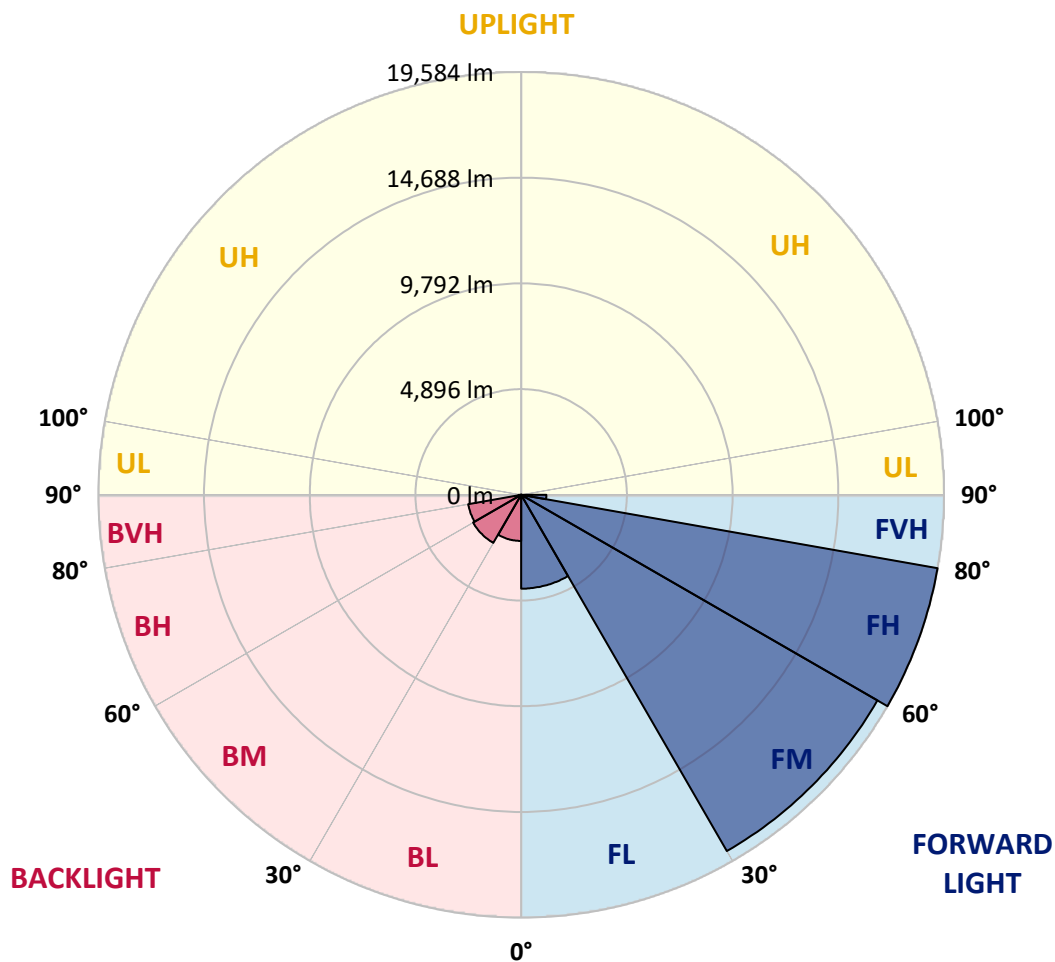
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	4346.0	8.4			
FM	(30°-60°)	19051.6	37.0			
FH	(60°-80°)	19583.7	38.0			G5
FVH	(80°-90°)	1167.0	2.3			G5
BL	(0°-30°)	2136.3	4.2	B3/2500		
BM	(30°-60°)	2572.6	5.0	B3/5000		
BH	(60°-80°)	2489.5	4.8	B3/2500		G3/2500
BVH	(80°-90°)	124.3	0.2			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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	13115.6	13115.6	13115.6	13115.6	13115.6	13115.6	13115.6	13115.6	13115.6	13115.6	13115.6
2.5°	13384.1	13414.0	13401.5	13394.1	13416.4	13381.6	13309.5	13287.1	13252.3	13170.3	13031.1
5°	12881.8	12971.4	12966.4	13033.5	13145.4	13175.2	13142.9	13147.9	13083.2	12981.3	12750.1
7.5°	12014.1	12051.4	12071.3	12218.0	12421.9	12586.0	12725.2	12770.0	12740.1	12653.1	12354.7
10°	11119.0	11148.9	11196.2	11367.7	11626.3	11852.6	12116.1	12267.7	12332.4	12317.5	11984.3
12.5°	10350.7	10380.6	10442.8	10636.7	10944.9	11223.4	11606.4	11795.3	11949.4	12041.5	11683.4
15°	9662.1	9726.7	9786.4	10010.2	10355.7	10721.2	11153.8	11392.6	11631.2	11837.5	11417.4
17.5°	9125.0	9189.6	9224.4	9428.3	9796.3	10243.8	10751.0	11032.0	11330.4	11668.6	11153.8
20°	8814.2	8844.0	8829.1	8943.4	9274.2	9748.9	10350.7	10676.5	11037.0	11509.4	10890.3
22.5°	8727.2	8729.6	8674.9	8662.5	8876.3	9276.6	9923.0	10318.5	10761.0	11404.9	10664.0
25°	8938.5	8931.1	8781.8	8660.0	8682.4	8916.1	9510.4	9970.4	10529.8	11382.6	10490.0
27.5°	9408.5	9430.8	9209.5	8980.8	8754.5	8747.1	9197.1	9681.9	10340.9	11484.6	10415.3
30°	10067.2	10104.7	9868.4	9577.4	9152.3	8801.7	9075.2	9510.4	10223.9	11695.8	10402.9
32.5°	10788.4	10828.1	10649.1	10343.2	9786.4	9139.9	9159.8	9525.2	10218.9	11991.8	10487.5
35°	11556.7	11601.3	11509.4	11250.8	10631.7	9764.0	9483.0	9766.4	10380.6	12444.3	10713.8
37.5°	12414.5	12484.1	12508.9	12262.7	11601.3	10586.9	10012.6	10223.9	10746.0	13073.3	11128.9
40°	13650.2	13747.1	13739.7	13386.6	12712.8	11698.4	10830.7	10885.3	11315.4	13913.7	11792.8
42.5°	16017.2	16037.1	15417.9	14649.7	13936.1	12866.9	11795.3	11750.7	12101.1	14978.0	12770.0
45°	19028.1	18946.1	17568.7	16084.3	15214.1	14209.6	13050.9	12832.2	13098.2	16275.7	13993.3
47.5°	21527.0	21338.0	19597.5	17548.7	16566.7	15669.1	14525.4	14142.4	14289.2	17747.6	15574.6
50°	22394.7	22253.0	20810.8	18767.1	17847.2	17449.4	16340.4	15798.4	15838.1	19503.1	17427.0
52.5°	22208.2	22188.4	21226.2	19570.2	19045.5	19319.1	18911.2	18177.8	17789.9	21452.4	19426.0
55°	21768.2	21810.5	21462.4	20505.0	20415.5	21124.1	22270.5	21728.4	20522.5	23419.0	21492.2
57.5°	20238.9	20348.5	21114.3	21681.1	22620.9	23675.2	24975.6	24821.4	23463.9	25545.0	23948.6
60°	16305.7	16559.3	18613.0	21452.4	24891.0	28187.9	28769.7	28411.7	26497.2	28183.0	27193.4
62.5°	11424.8	11688.4	14130.1	18573.2	24518.0	33285.0	35552.5	34008.5	30853.2	32069.1	31392.8
65°	6116.5	6243.3	8108.0	12886.8	20698.9	34336.7	45465.7	43116.1	37750.5	36860.4	34985.7
67.5°	3374.0	3443.7	4157.2	6506.8	13257.3	30236.7	51781.0	53556.2	46370.7	40050.4	34331.8
69°	3050.7	3115.4	3582.8	4928.0	8871.3	25000.3	51164.5	56308.7	50150.0	39734.7	31914.9
70°	2983.7	3043.3	3463.5	4542.6	7180.6	20607.0	49098.3	55605.1	51050.1	38603.3	29806.6
72.5°	2685.3	2749.9	3157.7	4080.2	6136.3	10273.6	38891.7	47014.7	46348.4	33471.5	22608.5
75°	2503.7	2563.4	3254.7	3995.6	5875.3	6501.8	25639.5	34650.1	34070.7	23414.1	12190.6
77.5°	1071.7	1066.7	1509.2	3381.5	5962.3	6295.5	13776.9	21646.3	19749.1	10007.6	3500.7
80°	716.0	703.6	716.0	994.6	5467.6	6330.3	7217.8	10987.2	8299.5	2550.9	1725.5
82.5°	616.7	606.7	629.0	606.7	1922.0	7225.5	6136.3	5842.9	3945.9	1449.6	855.3
85°	415.1	397.8	542.0	544.5	907.5	6419.7	6912.1	4935.5	3192.4	860.3	422.8
87.5°	199.0	193.9	315.8	385.3	532.1	2608.2	7755.0	5057.3	3219.9	440.1	201.4
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°	13115.6	13115.6	13115.6	13115.6	13115.6	13115.6	13115.6	13115.6	13115.6	13115.6	13115.6
2.5°	12988.7	12886.8	12787.3	12668.1	12543.7	12404.5	12334.9	12265.2	12247.9	12228.0	12158.4
5°	12630.7	12486.4	12237.9	11964.4	11676.0	11394.9	11181.1	11046.8	10944.9	10892.8	10800.9
7.5°	12168.3	11956.9	11521.8	11049.4	10564.6	10122.0	9739.1	9497.9	9269.1	9162.3	9040.4
10°	11728.2	11412.4	10736.2	10040.0	9343.8	8674.9	8045.9	7600.8	7205.5	6984.2	6827.6
12.5°	11350.3	10917.6	9980.3	9037.9	8083.2	7131.0	6188.6	5447.6	4828.5	4502.8	4336.2
15°	10982.3	10460.2	9261.7	8065.7	6839.9	5544.6	4306.4	3466.0	2953.9	2749.9	2680.3
17.5°	10649.1	9980.3	8540.7	7086.1	5557.0	3990.5	2894.2	2431.7	2235.2	2168.1	2145.8
20°	10288.6	9495.4	7792.3	6061.8	4219.4	2789.7	2260.1	2056.3	1976.6	1956.8	1946.8
22.5°	9940.5	9018.0	7076.1	4965.3	3030.9	2153.2	1941.9	1857.3	1844.9	1862.4	1862.4
25°	9644.7	8590.4	6302.9	3819.0	2225.3	1812.6	1738.0	1718.1	1765.3	1830.0	1842.4
27.5°	9423.3	8239.8	5479.9	2819.6	1772.7	1576.4	1573.9	1606.2	1723.0	1847.3	1872.2
30°	9271.6	7906.6	4599.9	2033.9	1486.8	1387.4	1427.2	1496.8	1668.4	1844.9	1892.2
32.5°	9194.6	7660.5	3682.2	1573.9	1273.0	1218.4	1285.4	1370.0	1539.0	1703.2	1765.3
35°	9254.3	7479.1	2817.0	1312.8	1123.8	1081.5	1151.1	1233.2	1332.8	1402.4	1449.6
37.5°	9478.0	7406.9	2125.8	1176.0	1021.9	982.1	1036.8	1084.1	1123.8	1143.7	1166.2
40°	9960.4	7483.9	1703.2	1106.5	964.8	914.9	937.3	954.8	979.6	999.5	1009.4
42.5°	10671.5	7715.3	1526.7	1079.1	934.8	862.8	857.8	865.3	897.6	934.8	942.4
45°	11666.0	8123.0	1514.3	1096.5	920.0	820.5	798.1	808.1	857.8	914.9	924.9
47.5°	12936.6	8744.6	1613.6	1148.8	932.4	798.1	760.9	773.2	835.4	912.6	924.9
50°	14475.6	9612.3	1780.3	1225.8	987.0	803.0	748.4	755.8	820.5	905.0	917.4
52.5°	16293.2	10843.0	1961.7	1300.4	1044.3	835.4	758.4	740.9	800.7	875.1	890.1
55°	18314.6	12421.9	2148.2	1367.5	1074.1	875.1	778.3	721.0	763.2	825.5	837.9
57.5°	20796.0	14629.9	2471.5	1432.2	1094.0	902.6	798.1	701.1	716.0	760.9	770.9
60°	24155.0	17752.7	3040.8	1539.0	1138.8	912.6	795.6	683.8	668.8	693.7	698.7
62.5°	28180.4	21144.1	3515.8	1673.3	1213.4	920.0	780.7	671.3	629.0	629.0	634.0
65°	30569.8	22051.6	3252.2	1785.2	1275.5	912.6	763.2	658.9	599.2	571.9	574.3
67.5°	28543.4	19393.6	2787.2	1807.5	1273.0	877.7	736.0	636.6	569.4	527.0	524.7
69°	26004.9	16733.3	2578.4	1747.9	1213.4	832.9	701.1	611.7	547.0	502.3	499.8
70°	23958.6	15109.7	2441.6	1683.2	1148.8	800.7	673.8	589.2	529.6	487.3	482.4
72.5°	17419.5	9900.7	2086.1	1447.0	947.3	671.3	581.8	517.2	472.4	447.5	442.6
75°	8704.8	4721.6	1693.2	1173.6	726.0	537.0	477.4	432.6	410.3	405.3	402.8
77.5°	2859.4	2163.2	1210.8	875.1	539.5	420.2	385.3	353.0	348.1	363.0	358.1
80°	1571.3	1258.1	768.3	579.3	367.9	308.3	303.3	285.9	293.4	318.3	313.2
82.5°	800.7	653.9	474.9	348.1	248.7	221.2	241.1	231.2	241.1	263.6	261.0
85°	395.3	358.1	300.9	211.3	164.1	141.7	171.5	178.9	184.0	201.4	201.4
87.5°	228.8	211.3	159.1	99.4	82.1	74.7	99.4	97.0	114.4	124.3	121.9
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)