

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: P191173

Luminaire Tested: **GAN-AF-05-LED-U-SL3**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191173
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-05-LED-U-SL3
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 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: 30435.9 lumens
Efficiency: N/A
Efficacy: 109.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G4

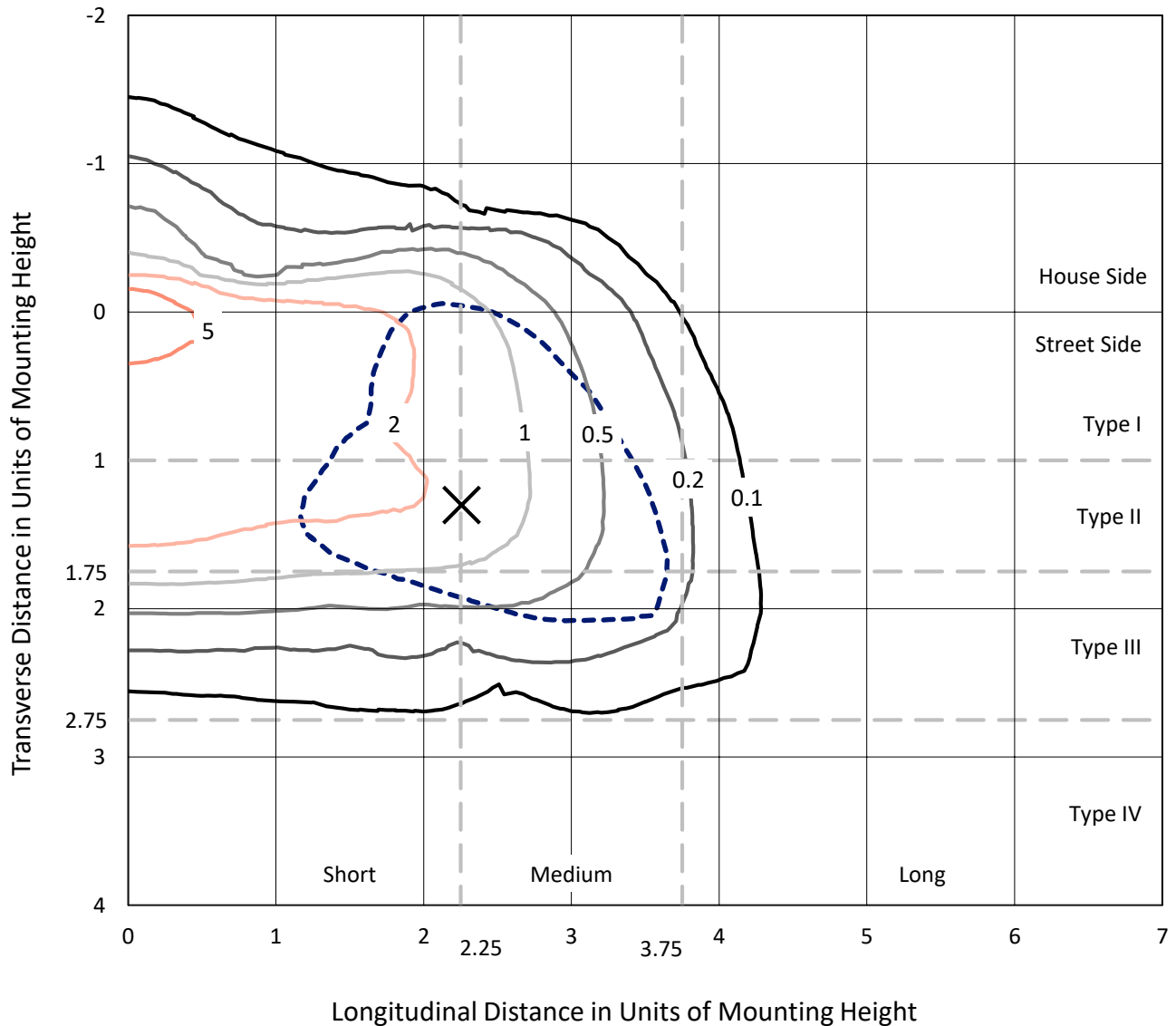
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

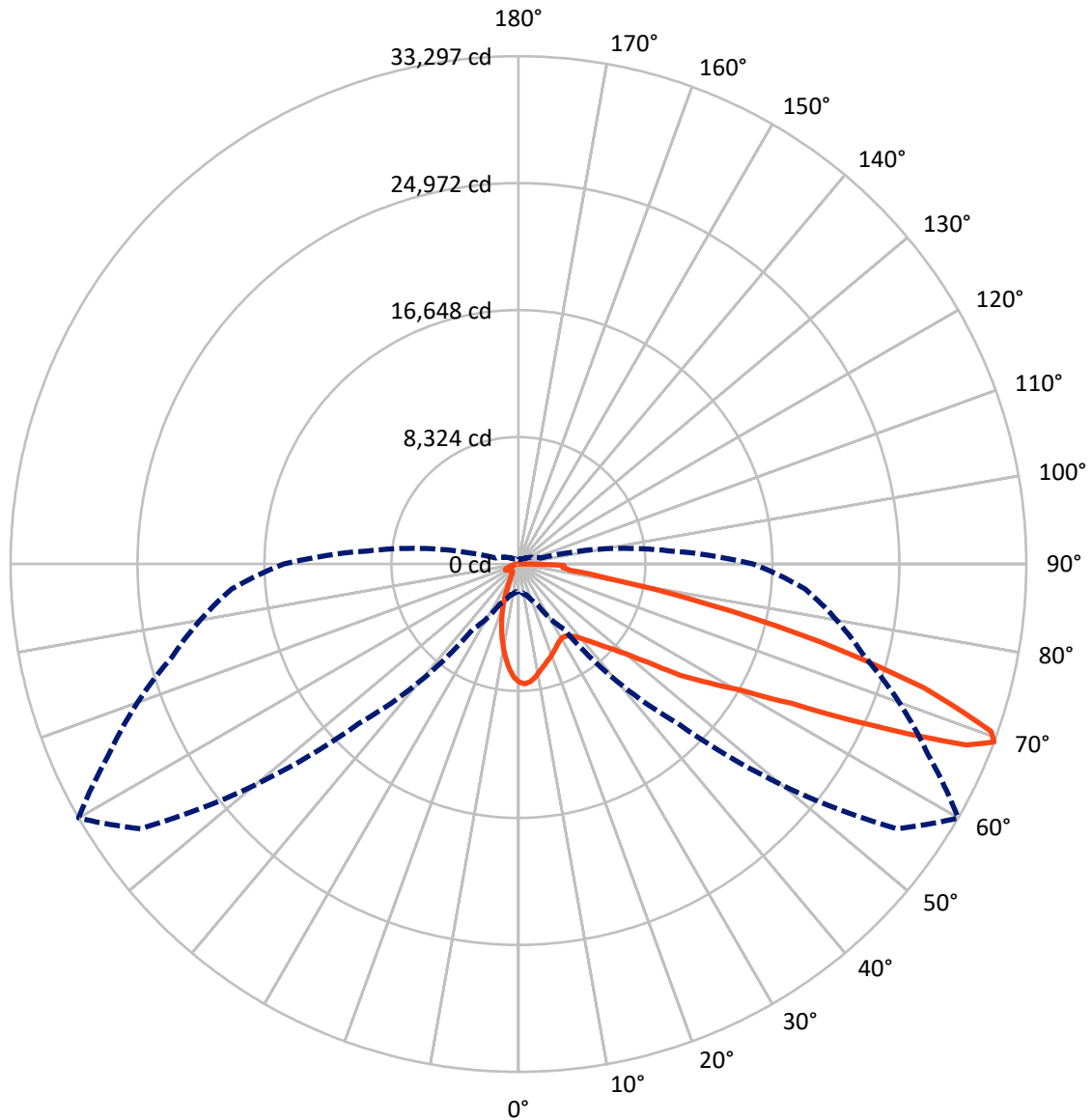
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 8.6 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	4330.1	0.0	4330.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	26105.8	0.0	26105.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	30435.9	0.0	30435.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	655.8	2.2
10°-20°	1397.1	4.6
20°-30°	1780.2	5.8
30°-40°	2447.3	8.0
40°-50°	3971.0	13.0
50°-60°	6368.5	20.9
60°-70°	8476.0	27.8
70°-80°	4576.4	15.0
80°-90°	763.6	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°	30435.9	100.0
0°-180°	30435.9	100.0

Coefficient of Utilization



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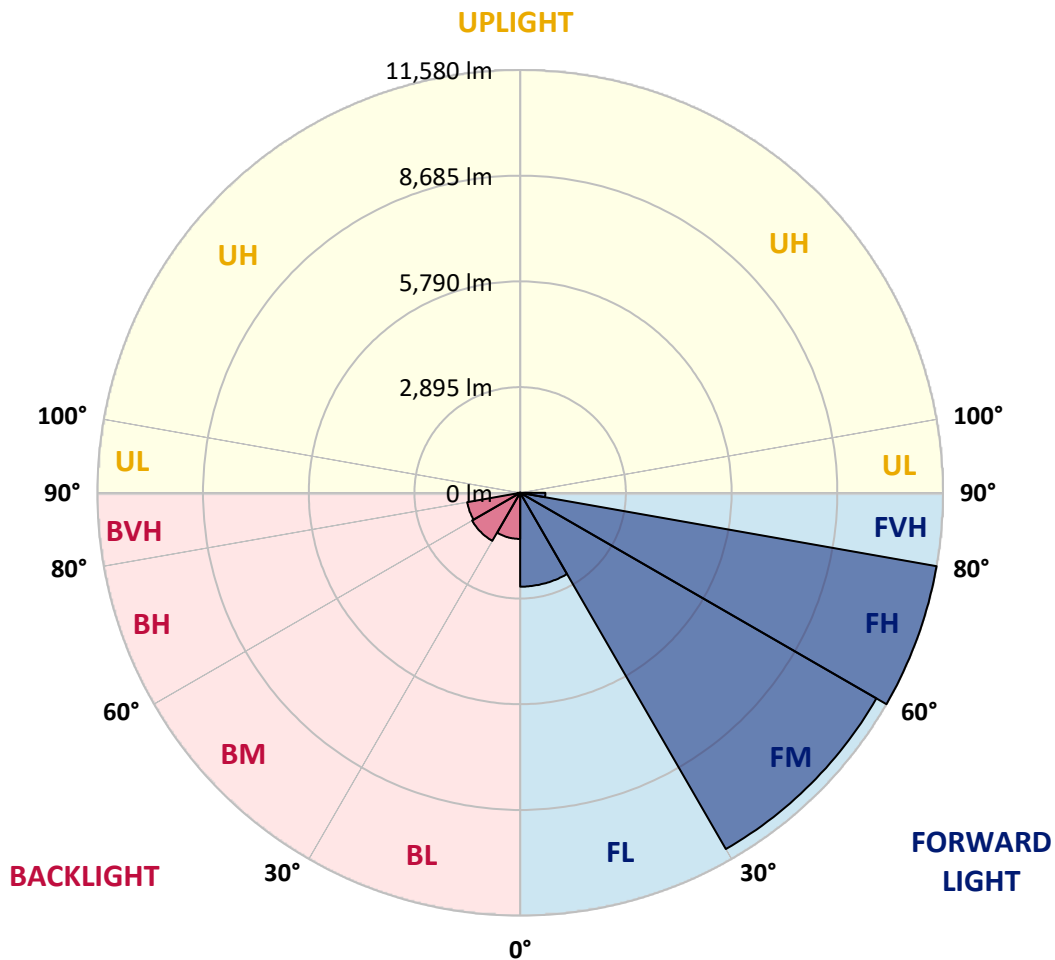
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2569.9	8.4			
FM (30°-60°)	11265.6	37.0			
FH (60°-80°)	11580.3	38.0			G4/12000
FVH (80°-90°)	690.1	2.3			G4/750
BL (0°-30°)	1263.2	4.2	B3/2500		
BM (30°-60°)	1521.2	5.0	B2/2500		
BH (60°-80°)	1472.1	4.8	B3/2500		G3/2500
BVH (80°-90°)	73.5	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	7755.5	7755.5	7755.5	7755.5	7755.5	7755.5	7755.5	7755.5	7755.5	7755.5	7755.5
2.5°	7914.3	7932.0	7924.6	7920.2	7933.4	7912.8	7870.2	7857.0	7836.4	7787.8	7705.5
5°	7617.3	7670.3	7667.3	7707.0	7773.2	7790.8	7771.7	7774.6	7736.4	7676.1	7539.4
7.5°	7104.2	7126.3	7138.0	7224.8	7345.3	7442.4	7524.7	7551.1	7533.5	7482.1	7305.6
10°	6574.9	6592.5	6620.5	6721.9	6874.8	7008.6	7164.4	7254.2	7292.4	7283.6	7086.6
12.5°	6120.6	6138.2	6175.0	6289.7	6472.0	6636.7	6863.1	6974.8	7065.9	7120.4	6908.7
15°	5713.4	5751.5	5786.8	5919.2	6123.6	6339.6	6595.5	6736.6	6877.8	6999.8	6751.4
17.5°	5395.8	5434.0	5454.6	5575.2	5792.8	6057.4	6357.3	6523.5	6699.9	6899.8	6595.5
20°	5212.0	5229.6	5220.8	5288.5	5484.0	5764.8	6120.6	6313.2	6526.4	6805.7	6439.7
22.5°	5160.6	5162.0	5129.7	5122.3	5248.8	5485.5	5867.7	6101.5	6363.2	6744.0	6305.9
25°	5285.5	5281.1	5192.9	5120.9	5134.1	5272.3	5623.7	5895.7	6226.5	6730.8	6203.0
27.5°	5563.4	5576.6	5445.8	5310.5	5176.7	5172.3	5438.4	5725.1	6114.7	6791.1	6158.9
30°	5953.0	5975.1	5835.4	5663.4	5411.9	5204.7	5366.4	5623.7	6045.6	6916.0	6151.5
32.5°	6379.3	6402.9	6297.1	6116.2	5786.8	5404.6	5416.3	5632.5	6042.7	7091.0	6201.4
35°	6833.7	6860.1	6805.7	6652.9	6286.7	5773.6	5607.5	5775.1	6138.2	7358.6	6335.2
37.5°	7340.9	7382.1	7396.8	7251.2	6860.1	6260.3	5920.6	6045.6	6354.4	7730.5	6580.8
40°	8071.6	8129.0	8124.6	7915.8	7517.4	6917.5	6404.4	6436.7	6691.0	8227.5	6973.4
42.5°	9471.3	9483.1	9116.9	8662.7	8240.7	7608.5	6974.8	6948.4	7155.6	8856.7	7551.1
45°	11251.7	11203.3	10388.7	9511.0	8996.4	8402.4	7717.2	7587.9	7745.3	9624.2	8274.5
47.5°	12729.3	12617.6	11588.4	10376.9	9796.2	9265.5	8589.1	8362.7	8449.5	10494.6	9209.6
50°	13242.4	13158.6	12305.9	11097.4	10553.4	10318.2	9662.4	9341.9	9365.4	11532.5	10304.9
52.5°	13132.2	13120.5	12551.4	11572.2	11262.1	11423.8	11182.7	10749.0	10519.6	12685.2	11487.0
55°	12872.0	12897.0	12691.1	12125.0	12072.1	12491.2	13169.0	12848.5	12135.4	13848.2	12708.7
57.5°	11967.7	12032.5	12485.3	12820.5	13376.2	13999.6	14768.5	14677.4	13874.7	15105.3	14161.3
60°	9641.8	9791.8	11006.2	12685.2	14718.6	16668.2	17012.2	16800.4	15668.3	16665.2	16080.0
62.5°	6755.8	6911.6	8355.4	10982.7	14498.1	19682.1	21023.0	20110.0	18244.2	18963.2	18563.3
65°	3616.7	3691.7	4794.5	7620.3	12239.7	20304.0	26884.8	25495.4	22322.6	21796.3	20687.7
67.5°	1995.2	2036.3	2458.3	3847.6	7839.3	17879.5	30619.3	31669.0	27420.0	23682.6	20301.1
69°	1804.0	1842.2	2118.6	2914.0	5245.8	14783.3	30254.6	33296.5	29654.7	23496.0	18872.0
70°	1764.3	1799.6	2048.0	2686.2	4246.1	12185.4	29032.9	32880.5	30187.0	22826.9	17625.2
72.5°	1587.8	1626.1	1867.2	2412.6	3628.5	6075.0	22997.5	27800.7	27406.8	19792.4	13368.9
75°	1480.5	1515.8	1924.6	2362.7	3474.1	3844.7	15161.2	20489.3	20146.7	13845.2	7208.6
77.5°	633.7	630.8	892.4	1999.6	3525.6	3722.6	8146.6	12799.9	11678.1	5917.7	2070.1
80°	423.4	416.0	423.4	588.1	3233.0	3743.2	4268.1	6497.0	4907.7	1508.4	1020.4
82.5°	364.6	358.7	371.9	358.7	1136.5	4272.6	3628.5	3455.0	2333.2	857.1	505.7
85°	245.5	235.3	320.5	322.0	536.6	3796.2	4087.3	2918.4	1887.8	508.7	249.9
87.5°	117.6	114.7	186.7	227.9	314.7	1542.3	4585.7	2990.5	1903.9	260.2	119.1
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°	7755.5	7755.5	7755.5	7755.5	7755.5	7755.5	7755.5	7755.5	7755.5	7755.5	7755.5
2.5°	7680.5	7620.3	7561.4	7490.9	7417.3	7335.1	7293.8	7252.7	7242.4	7230.6	7189.5
5°	7468.9	7383.6	7236.6	7074.8	6904.2	6738.1	6611.6	6532.3	6472.0	6441.1	6386.7
7.5°	7195.3	7070.4	6813.1	6533.8	6247.1	5985.4	5758.9	5616.3	5481.1	5417.9	5345.8
10°	6935.1	6748.4	6348.5	5936.8	5525.2	5129.7	4757.7	4494.5	4260.8	4129.9	4037.3
12.5°	6711.7	6455.8	5901.5	5344.3	4779.7	4216.6	3659.4	3221.3	2855.2	2662.6	2564.1
15°	6494.1	6185.3	5476.7	4769.5	4044.6	3278.7	2546.4	2049.5	1746.7	1626.1	1585.0
17.5°	6297.1	5901.5	5050.3	4190.2	3286.0	2359.7	1711.4	1437.9	1321.8	1282.1	1268.9
20°	6083.9	5614.9	4607.8	3584.4	2495.0	1649.6	1336.5	1215.9	1168.8	1157.1	1151.2
22.5°	5878.0	5332.5	4184.3	2936.1	1792.2	1273.3	1148.3	1098.2	1090.9	1101.2	1101.2
25°	5703.1	5079.7	3727.0	2258.3	1315.8	1071.8	1027.7	1015.9	1043.9	1082.1	1089.4
27.5°	5572.2	4872.4	3240.4	1667.2	1048.3	932.1	930.7	949.8	1018.9	1092.4	1107.1
30°	5482.5	4675.4	2719.9	1202.7	879.2	820.4	843.9	885.1	986.5	1090.9	1118.9
32.5°	5437.0	4529.8	2177.5	930.7	752.8	720.5	760.2	810.1	910.1	1007.1	1043.9
35°	5472.3	4422.5	1665.8	776.3	664.5	639.5	680.7	729.3	788.1	829.2	857.1
37.5°	5604.5	4379.9	1257.1	695.4	604.3	580.7	613.1	641.0	664.5	676.3	689.6
40°	5889.7	4425.4	1007.1	654.3	570.5	541.0	554.2	564.6	579.3	591.1	596.9
42.5°	6310.3	4562.2	902.8	638.1	552.8	510.1	507.3	511.7	530.7	552.8	557.2
45°	6898.4	4803.3	895.4	648.3	544.0	485.2	472.0	477.8	507.3	541.0	547.0
47.5°	7649.6	5170.8	954.2	679.2	551.4	472.0	449.9	457.3	494.0	539.6	547.0
50°	8559.7	5683.9	1052.7	724.9	583.7	474.9	442.5	446.9	485.2	535.2	542.5
52.5°	9634.5	6411.8	1160.0	769.0	617.5	494.0	448.5	438.1	473.4	517.5	526.3
55°	10829.8	7345.3	1270.3	808.6	635.2	517.5	460.2	426.4	451.3	488.2	495.5
57.5°	12297.1	8650.9	1461.4	846.9	646.9	533.7	472.0	414.6	423.4	449.9	455.7
60°	14283.4	10497.5	1798.1	910.1	673.4	539.6	470.5	404.3	395.5	410.2	413.2
62.5°	16663.7	12502.9	2078.9	989.5	717.5	544.0	461.7	397.0	371.9	371.9	374.9
65°	18076.6	13039.6	1923.0	1055.6	754.2	539.6	451.3	389.6	354.4	338.2	339.6
67.5°	16878.4	11467.9	1648.2	1068.9	752.8	519.0	435.2	376.3	336.7	311.7	310.3
69°	15377.2	9894.7	1524.6	1033.6	717.5	492.6	414.6	361.7	323.5	297.0	295.5
70°	14167.3	8934.7	1443.8	995.3	679.2	473.4	398.4	348.4	313.1	288.2	285.2
72.5°	10300.5	5854.4	1233.6	855.7	560.2	397.0	344.0	305.8	279.4	264.6	261.7
75°	5147.3	2791.9	1001.3	694.0	429.3	317.5	282.3	255.8	242.5	239.7	238.1
77.5°	1690.7	1279.1	716.0	517.5	319.1	248.5	227.9	208.8	205.8	214.6	211.8
80°	929.1	744.0	454.3	342.6	217.6	182.3	179.3	169.1	173.5	188.2	185.3
82.5°	473.4	386.7	280.8	205.8	147.0	130.8	142.6	136.8	142.6	155.8	154.4
85°	233.7	211.8	177.9	125.0	97.1	83.8	101.5	105.9	108.8	119.1	119.1
87.5°	135.2	125.0	94.1	58.8	48.5	44.1	58.8	57.4	67.6	73.6	72.0
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)