

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: P192905

Luminaire Tested: **GAN-AF-07-LED-U-SL3-7030-800-ADJ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192905
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-07-LED-U-SL3-7030-800-ADJ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 3000K, 800mA 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: 32902.3 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium - Non-Cutoff
BUG Rating: B3 - U0 - G5

Input Watts (W): 295
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

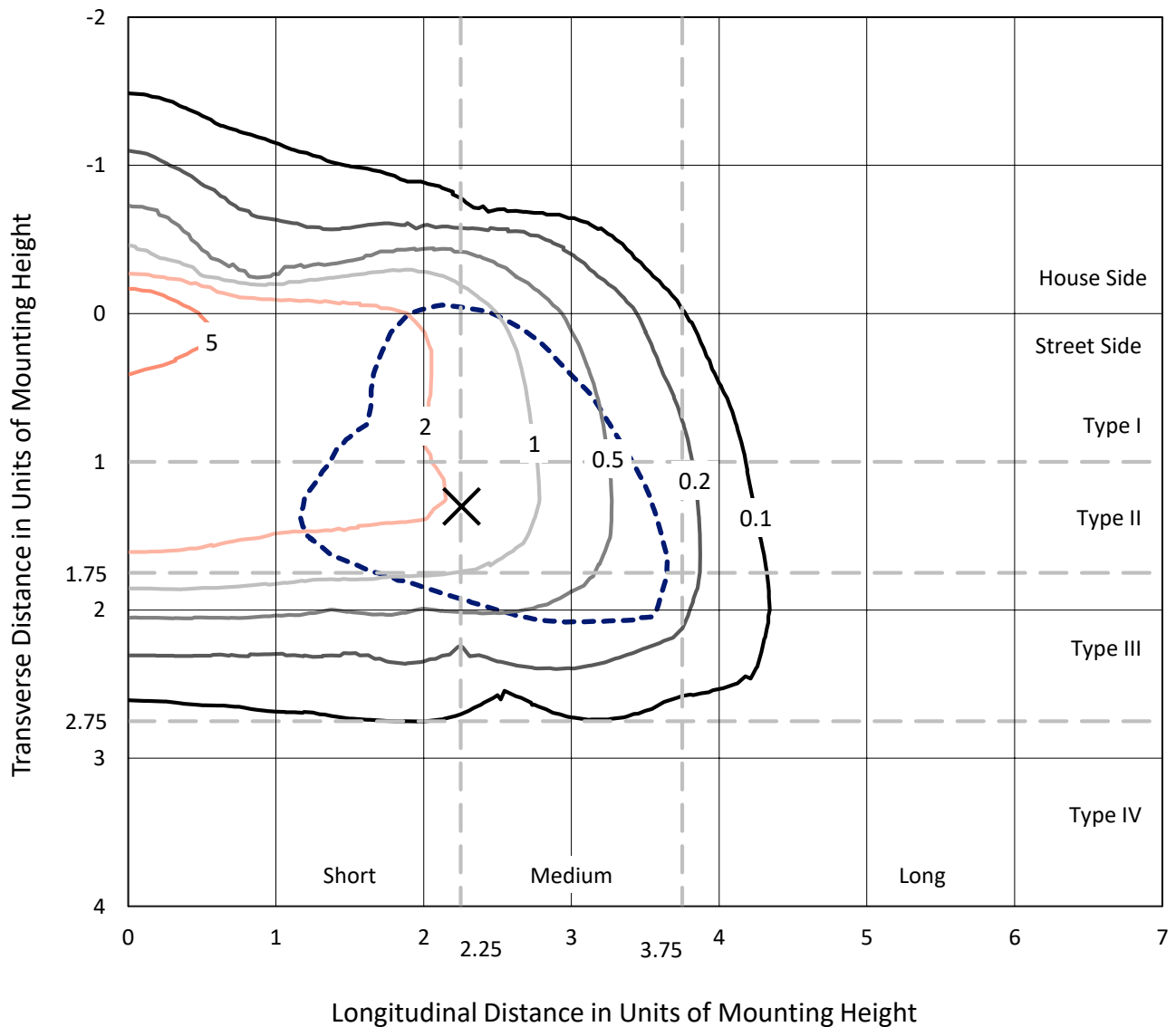


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

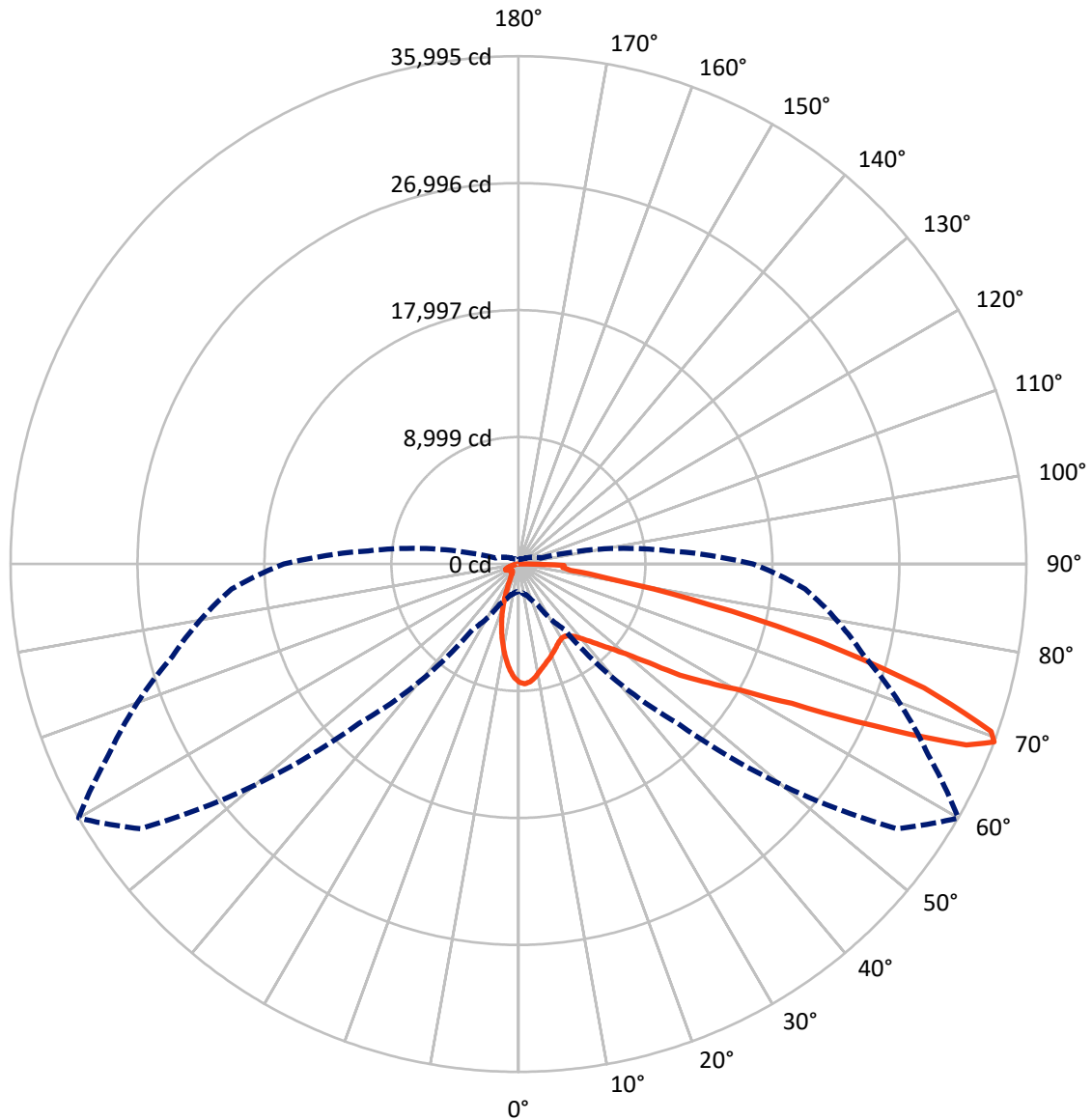


Based on 30 foot mounting height. Maximum calculated value = 9.3 fc
 Type III - Medium - Non-Cutoff

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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	4681.0	0.0	4681.0
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	28221.4	0.0	28221.4
	% Fixture	85.8	0.0	85.8
Total	Lumens	32902.3	0.0	32902.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	708.9	2.2
10°-20°	1510.4	4.6
20°-30°	1924.5	5.8
30°-40°	2645.6	8.0
40°-50°	4292.8	13.0
50°-60°	6884.6	20.9
60°-70°	9162.8	27.8
70°-80°	4947.2	15.0
80°-90°	825.5	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°	32902.3	100.0
0°-180°	32902.3	100.0



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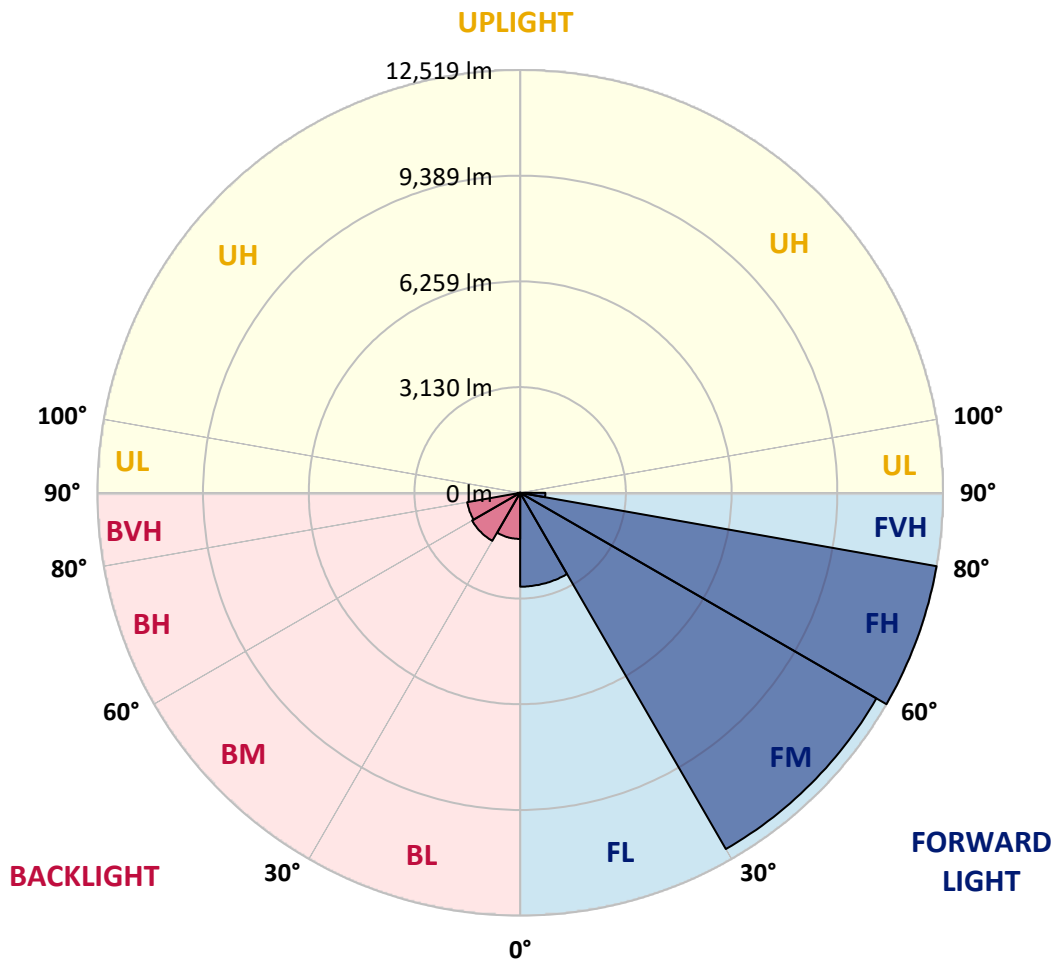
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2778.1	8.4			
FM (30°-60°)	12178.5	37.0			
FH (60°-80°)	12518.7	38.0			G5
FVH (80°-90°)	746.0	2.3			G4/750
BL (0°-30°)	1365.6	4.2	B3/2500		
BM (30°-60°)	1644.5	5.0	B2/2500		
BH (60°-80°)	1591.4	4.8	B3/2500		G3/2500
BVH (80°-90°)	79.5	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-G5

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	65°	75°	85°
0°	8384.0	8384.0	8384.0	8384.0	8384.0	8384.0	8384.0	8384.0	8384.0	8384.0	8384.0
2.5°	8555.6	8574.7	8566.8	8562.0	8576.3	8554.1	8508.0	8493.7	8471.4	8419.0	8329.9
5°	8234.7	8291.8	8288.6	8331.6	8403.1	8422.1	8401.5	8404.7	8363.4	8298.2	8150.4
7.5°	7680.0	7703.8	7716.4	7810.3	7940.5	8045.6	8134.5	8163.1	8143.9	8088.4	7897.7
10°	7107.8	7126.8	7157.0	7266.8	7432.0	7576.6	7745.1	7842.1	7883.4	7873.8	7660.8
12.5°	6616.6	6635.7	6675.4	6799.4	6996.5	7174.5	7419.2	7540.1	7638.7	7697.5	7468.5
15°	6176.3	6217.7	6255.8	6398.9	6619.8	6853.4	7130.0	7282.5	7435.2	7567.1	7298.4
17.5°	5833.1	5874.4	5896.6	6027.0	6262.2	6548.2	6872.5	7052.1	7242.8	7459.0	7130.0
20°	5634.4	5653.4	5643.9	5717.0	5928.4	6232.0	6616.6	6824.9	7055.3	7357.3	6961.6
22.5°	5578.8	5580.3	5545.4	5537.4	5674.2	5930.0	6343.3	6596.0	6878.9	7290.6	6816.9
25°	5713.8	5709.2	5613.7	5535.8	5550.2	5699.5	6079.4	6373.4	6731.0	7276.2	6705.6
27.5°	6014.2	6028.5	5887.1	5740.9	5596.3	5591.5	5879.1	6189.1	6610.3	7341.3	6657.9
30°	6435.5	6459.3	6308.3	6122.4	5850.5	5626.5	5801.2	6079.4	6535.6	7476.5	6649.9
32.5°	6896.3	6921.8	6807.3	6611.9	6255.8	5842.6	5855.3	6088.9	6532.4	7665.6	6704.0
35°	7387.4	7416.1	7357.3	7192.0	6796.3	6241.6	6061.9	6243.1	6635.7	7954.8	6848.7
37.5°	7935.8	7980.3	7996.2	7838.8	7416.1	6767.6	6400.4	6535.6	6869.3	8357.0	7114.1
40°	8725.8	8787.7	8783.0	8557.3	8126.4	7478.0	6923.3	6958.2	7233.3	8894.2	7538.5
42.5°	10238.8	10251.6	9855.8	9364.6	8908.6	8225.0	7540.1	7511.5	7735.5	9574.5	8163.1
45°	12163.7	12111.2	11230.6	10281.8	9725.5	9083.4	8342.7	8202.8	8372.9	10404.1	8945.0
47.5°	13760.8	13640.2	12527.5	11217.8	10590.1	10016.4	9285.2	9040.4	9134.2	11345.1	9955.9
50°	14315.5	14225.0	13303.2	11996.6	11408.7	11154.3	10445.4	10099.0	10124.4	12467.1	11140.0
52.5°	14196.4	14183.7	13568.6	12510.0	12174.6	12349.6	12088.9	11620.0	11372.0	13713.2	12417.9
55°	13915.0	13942.1	13719.5	13107.8	13050.5	13503.5	14236.2	13889.7	13118.8	14970.4	13738.7
57.5°	12937.6	13007.6	13497.2	13859.4	14460.3	15134.1	15965.4	15866.8	14999.0	16329.4	15309.0
60°	10423.3	10585.4	11898.2	13713.2	15911.3	18018.9	18390.8	18161.9	16938.1	18015.6	17383.1
62.5°	7303.2	7471.7	9032.5	11872.7	15672.9	21277.1	22726.7	21739.7	19722.7	20499.9	20067.6
65°	3909.9	3990.9	5183.0	8237.8	13231.7	21949.4	29063.5	27561.5	24131.6	23562.7	22364.3
67.5°	2156.8	2201.2	2657.4	4159.4	8474.5	19328.5	33100.5	34235.4	29642.0	25601.8	21946.3
69°	1950.2	1991.5	2290.3	3150.2	5670.9	15981.3	32706.4	35994.8	32058.0	25399.9	20401.3
70°	1907.2	1945.4	2214.0	2903.8	4590.2	13172.9	31385.6	35545.0	32633.3	24676.9	19053.6
72.5°	1716.6	1757.9	2018.6	2608.2	3922.6	6567.3	24861.2	30053.7	29627.8	21396.4	14452.3
75°	1600.5	1638.7	2080.6	2554.2	3755.7	4156.2	16389.8	22149.7	21779.4	14967.2	7792.8
77.5°	685.0	681.9	964.8	2161.5	3811.4	4024.3	8806.9	13837.2	12624.5	6397.2	2237.8
80°	457.8	449.8	457.8	635.8	3495.1	4046.5	4614.0	7023.5	5305.4	1630.7	1103.1
82.5°	394.2	387.8	402.1	387.8	1228.6	4618.7	3922.6	3735.0	2522.4	926.6	546.8
85°	265.4	254.3	346.5	348.1	580.1	4103.8	4418.5	3155.0	2040.8	549.9	270.2
87.5°	127.2	124.0	201.8	246.4	340.2	1667.3	4957.3	3232.8	2058.2	281.4	128.7
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°	8384.0	8384.0	8384.0	8384.0	8384.0	8384.0	8384.0	8384.0	8384.0	8384.0	8384.0
2.5°	8302.9	8237.8	8174.2	8098.0	8018.4	7929.5	7884.9	7840.5	7829.3	7816.6	7772.0
5°	8074.0	7981.9	7823.0	7648.1	7463.7	7284.2	7147.5	7061.7	6996.5	6963.1	6904.3
7.5°	7778.5	7643.3	7365.1	7063.3	6753.4	6470.5	6225.6	6071.4	5925.2	5856.9	5779.0
10°	7497.2	7295.2	6863.0	6417.9	5972.8	5545.4	5143.3	4858.8	4606.1	4464.6	4364.5
12.5°	7255.6	6979.1	6379.7	5777.4	5167.1	4558.4	3956.0	3482.3	3086.6	2878.3	2771.9
15°	7020.4	6686.5	5920.4	5156.0	4372.4	3544.4	2752.8	2215.6	1888.2	1757.9	1713.4
17.5°	6807.3	6379.7	5459.5	4529.8	3552.2	2550.9	1850.1	1554.4	1428.9	1386.0	1371.6
20°	6576.9	6069.9	4981.1	3874.9	2697.2	1783.3	1444.7	1314.4	1263.6	1250.8	1244.5
22.5°	6354.4	5764.7	4523.5	3174.0	1937.5	1376.4	1241.3	1187.3	1179.4	1190.5	1190.5
25°	6165.3	5491.4	4029.1	2441.3	1422.5	1158.7	1110.9	1098.3	1128.4	1169.8	1177.7
27.5°	6023.8	5267.3	3503.0	1802.3	1133.2	1007.7	1006.1	1026.7	1101.5	1180.9	1196.8
30°	5926.8	5054.3	2940.3	1300.0	950.4	886.8	912.4	956.8	1066.5	1179.4	1209.5
32.5°	5877.6	4896.9	2353.9	1006.1	813.8	778.8	821.7	875.7	983.9	1088.8	1128.4
35°	5915.8	4780.8	1800.8	839.2	718.4	691.4	735.9	788.3	851.9	896.4	926.6
37.5°	6058.8	4734.8	1358.9	751.8	653.3	627.8	662.7	692.9	718.4	731.2	745.4
40°	6367.1	4784.0	1088.8	707.2	616.7	584.9	599.2	610.3	626.2	638.9	645.2
42.5°	6821.6	4931.9	975.9	689.8	597.6	551.5	548.4	553.1	573.7	597.6	602.3
45°	7457.4	5192.5	967.9	700.9	588.1	524.5	510.2	516.6	548.4	584.9	591.2
47.5°	8269.7	5589.9	1031.5	734.3	596.0	510.2	486.3	494.3	534.1	583.3	591.2
50°	9253.3	6144.5	1138.1	783.6	631.0	513.4	478.4	483.2	524.5	578.5	586.5
52.5°	10415.2	6931.3	1254.1	831.3	667.6	534.1	484.8	473.6	511.8	559.5	569.0
55°	11707.4	7940.5	1373.3	874.2	686.5	559.5	497.4	461.0	488.0	527.7	535.6
57.5°	13293.7	9351.9	1579.9	915.5	699.4	577.0	510.2	448.2	457.8	486.3	492.8
60°	15440.8	11348.2	1943.8	983.9	727.8	583.3	508.6	437.0	427.5	443.5	446.7
62.5°	18014.1	13516.1	2247.4	1069.6	775.6	588.1	499.1	429.2	402.1	402.1	405.3
65°	19541.4	14096.3	2078.8	1141.2	815.4	583.3	488.0	421.2	383.1	365.6	367.1
67.5°	18246.2	12397.2	1781.7	1155.5	813.8	561.0	470.5	406.9	364.0	336.9	335.3
69°	16623.4	10696.6	1648.1	1117.2	775.6	532.4	448.2	391.0	349.6	321.0	319.5
70°	15315.3	9658.7	1560.8	1075.9	734.3	511.8	430.7	376.7	338.4	311.5	308.3
72.5°	11135.2	6329.0	1333.5	925.0	605.6	429.2	371.9	330.6	302.0	286.0	282.9
75°	5564.5	3018.3	1082.3	750.2	464.2	343.3	305.2	276.5	262.2	259.1	257.6
77.5°	1827.8	1382.7	774.0	559.5	344.9	268.6	246.4	225.7	222.6	232.0	228.9
80°	1004.5	804.2	491.1	370.3	235.2	197.1	193.9	182.8	187.6	203.4	200.3
82.5°	511.8	418.0	303.5	222.6	159.0	141.5	154.2	147.8	154.2	168.5	166.8
85°	252.7	228.9	192.3	135.1	104.9	90.5	109.7	114.4	117.6	128.7	128.7
87.5°	146.2	135.1	101.7	63.6	52.5	47.6	63.6	62.0	73.1	79.4	77.9
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)