

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: P299918

Luminaire Tested: **GAA-AF-08-LED-U-SL3-7030-800**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P299918
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: GAA-AF-08-LED-U-SL3-7030-800
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Type V
Square Medium OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37152.8 lumens
Efficiency: N/A
Efficacy: 111.2 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

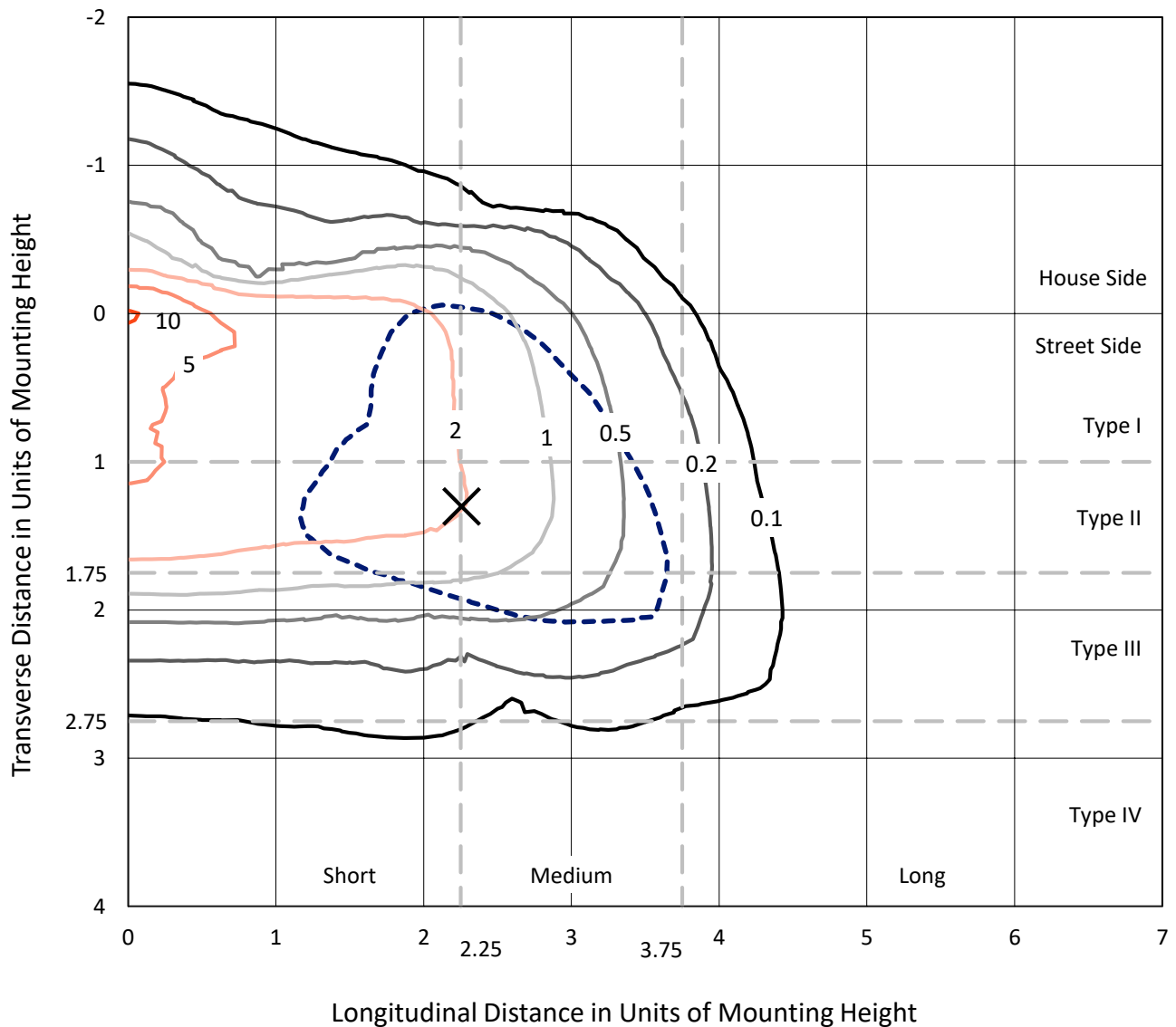
Input Watts (W): 334
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

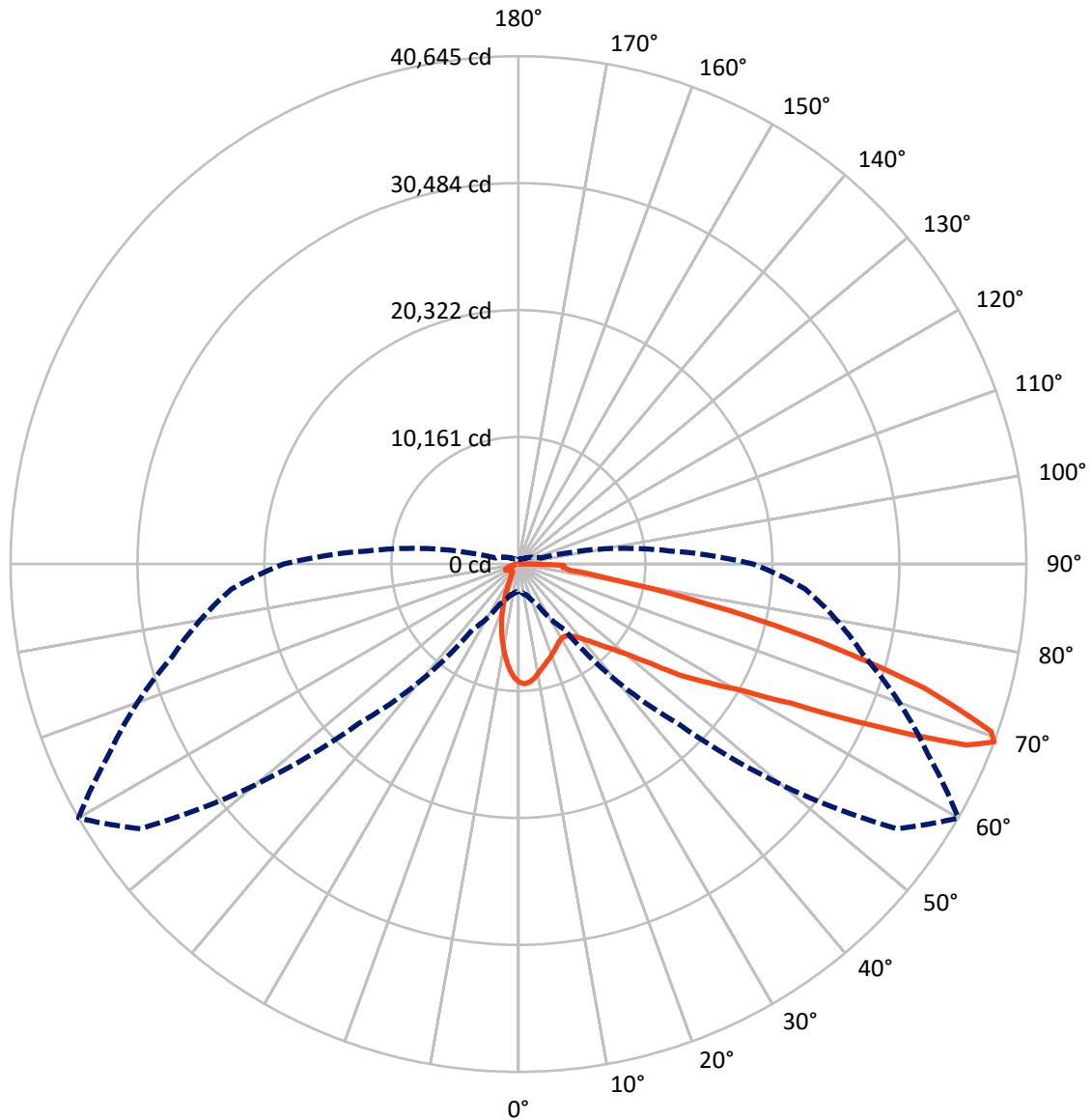
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 10.5 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	5285.7	0.0	5285.7
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	31867.1	0.0	31867.1
	% Fixture	85.8	0.0	85.8
Total	Lumens	37152.8	0.0	37152.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	800.5	2.2
10°-20°	1705.5	4.6
20°-30°	2173.1	5.8
30°-40°	2987.4	8.0
40°-50°	4847.4	13.0
50°-60°	7773.9	20.9
60°-70°	10346.5	27.8
70°-80°	5586.3	15.0
80°-90°	932.1	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°	37152.8	100.0
0°-180°	37152.8	100.0

Coefficient of Utilization



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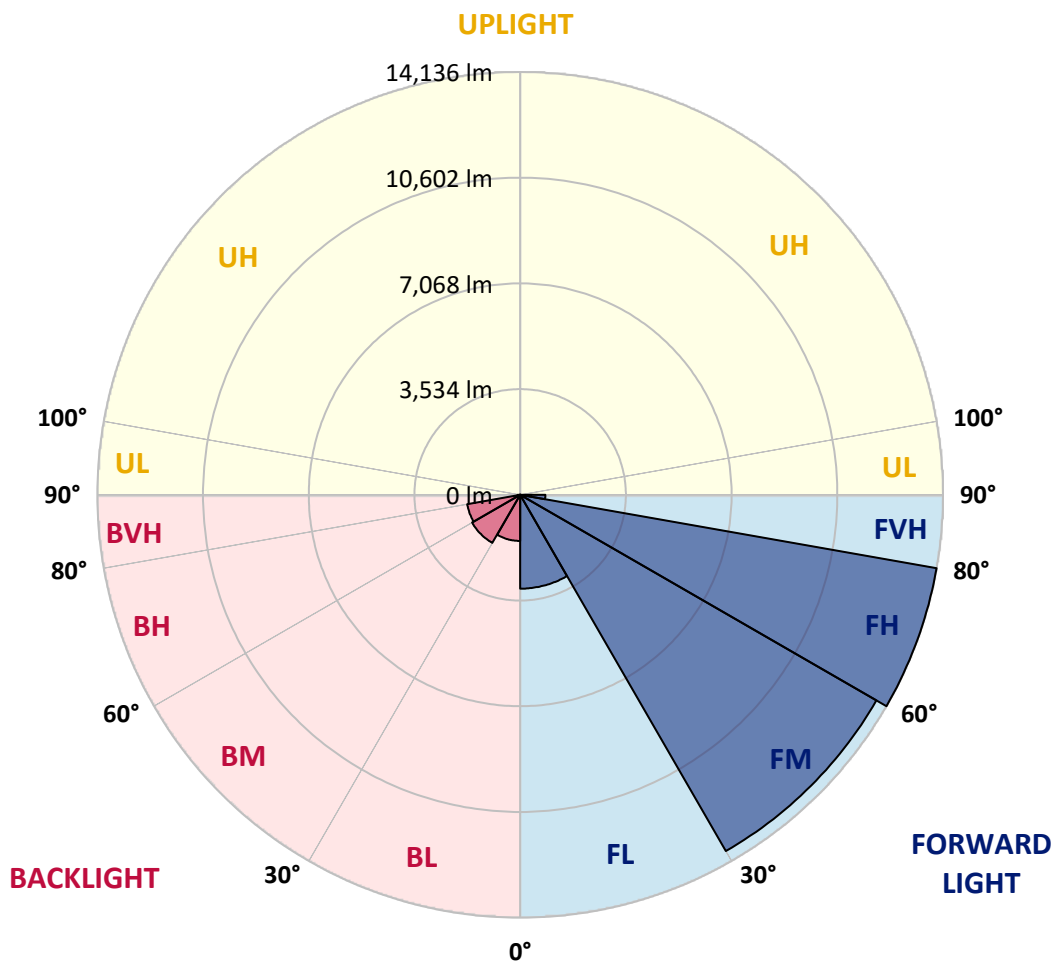
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3137.0	8.4			
FM	(30°-60°)	13751.8	37.0			
FH	(60°-80°)	14135.9	38.0			G5
FVH	(80°-90°)	842.4	2.3			G5
BL	(0°-30°)	1542.0	4.2	B3/2500		
BM	(30°-60°)	1857.0	5.0	B2/2500		
BH	(60°-80°)	1797.0	4.8	B3/2500		G3/2500
BVH	(80°-90°)	89.8	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°	9467.1	9467.1	9467.1	9467.1	9467.1	9467.1	9467.1	9467.1	9467.1	9467.1	9467.1
2.5°	9660.9	9682.5	9673.5	9668.1	9684.2	9659.1	9607.1	9590.9	9565.8	9506.6	9406.1
5°	9298.4	9363.0	9359.4	9407.9	9488.6	9510.2	9486.8	9490.4	9443.8	9370.2	9203.3
7.5°	8672.0	8699.0	8713.3	8819.2	8966.4	9084.8	9185.3	9217.6	9196.1	9133.3	8917.9
10°	8025.9	8047.5	8081.6	8205.4	8392.1	8555.4	8745.6	8855.1	8901.8	8891.0	8650.5
12.5°	7471.4	7492.9	7537.8	7677.8	7900.3	8101.3	8377.7	8514.1	8625.4	8691.8	8433.3
15°	6974.2	7020.9	7064.0	7225.5	7475.0	7738.8	8051.1	8223.4	8395.6	8544.6	8241.3
17.5°	6586.6	6633.2	6658.4	6805.5	7071.2	7394.2	7760.3	7963.1	8178.5	8422.6	8051.1
20°	6362.2	6383.8	6373.0	6455.6	6694.3	7037.1	7471.4	7706.5	7966.7	8307.7	7860.8
22.5°	6299.4	6301.2	6261.7	6252.8	6407.1	6696.1	7162.7	7448.0	7767.5	8232.3	7697.5
25°	6452.0	6446.6	6338.9	6251.0	6267.1	6435.8	6864.8	7196.8	7600.6	8216.2	7571.9
27.5°	6791.2	6807.3	6647.6	6482.5	6319.2	6313.8	6638.6	6988.6	7464.2	8289.8	7518.0
30°	7266.8	7293.7	7123.2	6913.2	6606.3	6353.3	6550.7	6864.8	7379.8	8442.3	7509.1
32.5°	7787.2	7816.0	7686.7	7466.0	7064.0	6597.3	6611.7	6875.5	7376.3	8655.9	7570.1
35°	8341.8	8374.1	8307.7	8121.1	7674.2	7047.8	6845.0	7049.6	7492.9	8982.5	7733.4
37.5°	8961.0	9011.2	9029.2	8851.5	8374.1	7641.9	7227.3	7379.8	7756.7	9436.6	8033.1
40°	9852.9	9922.9	9917.6	9662.7	9176.3	8444.1	7817.7	7857.2	8167.7	10043.2	8512.3
42.5°	11561.5	11575.9	11129.0	10574.4	10059.3	9287.6	8514.1	8481.8	8734.8	10811.3	9217.6
45°	13734.9	13675.7	12681.4	11610.0	10981.8	10256.8	9420.4	9262.5	9454.5	11748.2	10100.6
47.5°	15538.6	15402.2	14145.9	12667.0	11958.1	11310.3	10484.7	10208.3	10314.2	12810.6	11242.1
50°	16164.9	16062.6	15021.7	13546.5	12882.4	12595.3	11794.8	11403.6	11432.3	14077.7	12579.1
52.5°	16030.3	16016.0	15321.4	14126.1	13747.5	13944.9	13650.6	13121.1	12841.1	15484.7	14022.1
55°	15712.7	15743.2	15491.9	14801.0	14736.3	15247.8	16075.2	15684.0	14813.5	16904.4	15513.5
57.5°	14608.9	14687.9	15240.7	15649.9	16328.3	17089.2	18027.8	17916.6	16936.7	18438.8	17286.6
60°	11769.7	11952.8	13435.2	15484.7	17966.8	20346.6	20766.6	20508.1	19126.2	20343.0	19628.7
62.5°	8246.7	8436.9	10199.3	13406.5	17697.6	24025.8	25662.5	24548.0	22270.5	23148.1	22660.0
65°	4415.0	4506.5	5852.5	9302.0	14940.9	24784.9	32818.0	31122.0	27249.1	26606.5	25253.3
67.5°	2435.4	2485.7	3000.8	4696.8	9569.4	21825.4	37376.6	38658.0	33471.3	28909.2	24781.3
69°	2202.1	2248.8	2586.2	3557.1	6403.5	18045.8	36931.5	40644.8	36199.3	28681.2	23036.9
70°	2153.6	2196.7	2500.0	3278.9	5183.1	14874.5	35440.1	40136.9	36848.9	27864.6	21515.0
72.5°	1938.3	1984.9	2279.3	2945.1	4429.3	7415.7	28072.8	33936.1	33455.2	24160.4	16319.3
75°	1807.3	1850.3	2349.3	2884.1	4240.9	4693.2	18507.0	25011.1	24592.9	16900.8	8799.5
77.5°	773.5	769.9	1089.4	2440.8	4303.7	4544.2	9944.5	15624.7	14255.4	7223.7	2526.9
80°	516.9	507.9	516.9	717.9	3946.6	4569.3	5210.0	7930.8	5990.7	1841.4	1245.5
82.5°	445.1	437.9	454.1	437.9	1387.3	5215.4	4429.3	4217.6	2848.2	1046.3	617.4
85°	299.7	287.2	391.2	393.0	655.1	4633.9	4989.3	3562.5	2304.4	621.0	305.1
87.5°	143.6	140.0	227.9	278.2	384.1	1882.6	5597.7	3650.4	2324.1	317.7	145.4
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°	9467.1	9467.1	9467.1	9467.1	9467.1	9467.1	9467.1	9467.1	9467.1	9467.1	9467.1
2.5°	9375.6	9302.0	9230.2	9144.0	9054.3	8953.8	8903.5	8853.3	8840.7	8826.4	8776.1
5°	9117.1	9013.0	8833.6	8636.1	8427.9	8225.1	8070.8	7973.9	7900.3	7862.6	7796.2
7.5°	8783.3	8630.8	8316.7	7975.7	7625.7	7306.3	7029.9	6855.8	6690.7	6613.5	6525.6
10°	8465.6	8237.7	7749.5	7247.0	6744.5	6261.7	5807.7	5486.4	5201.1	5041.3	4928.3
12.5°	8192.8	7880.6	7204.0	6523.8	5834.6	5147.2	4467.0	3932.2	3485.3	3250.2	3130.0
15°	7927.2	7550.3	6685.3	5822.0	4937.2	4002.2	3108.4	2501.8	2132.1	1984.9	1934.7
17.5°	7686.7	7204.0	6164.8	5114.9	4011.2	2880.5	2089.0	1755.2	1613.4	1565.0	1548.8
20°	7426.5	6854.0	5624.6	4375.5	3045.6	2013.7	1631.4	1484.2	1426.8	1412.4	1405.3
22.5°	7175.2	6509.4	5107.7	3584.0	2187.7	1554.2	1401.7	1340.6	1331.7	1344.2	1344.2
25°	6961.7	6200.7	4549.6	2756.7	1606.3	1308.3	1254.5	1240.1	1274.2	1320.9	1329.9
27.5°	6801.9	5947.7	3955.5	2035.2	1279.6	1137.8	1136.1	1159.4	1243.7	1333.5	1351.4
30°	6692.5	5707.2	3320.2	1468.1	1073.2	1001.4	1030.2	1080.4	1204.2	1331.7	1365.8
32.5°	6636.8	5529.5	2658.0	1136.1	918.9	879.4	927.9	988.9	1110.9	1229.4	1274.2
35°	6679.9	5398.5	2033.4	947.6	811.2	780.7	830.9	890.2	962.0	1012.2	1046.3
37.5°	6841.4	5346.4	1534.5	848.9	737.6	708.9	748.4	782.5	811.2	825.6	841.7
40°	7189.6	5402.1	1229.4	798.6	696.3	660.5	676.6	689.2	707.1	721.5	728.7
42.5°	7702.9	5569.0	1102.0	778.9	674.8	622.8	619.2	624.6	647.9	674.8	680.2
45°	8420.8	5863.3	1093.0	791.5	664.0	592.3	576.1	583.3	619.2	660.5	667.6
47.5°	9337.9	6312.0	1164.8	829.2	673.0	576.1	549.2	558.2	603.0	658.7	667.6
50°	10448.8	6938.3	1285.0	884.8	712.5	579.7	540.2	545.6	592.3	653.3	662.2
52.5°	11760.7	7826.7	1416.0	938.6	753.8	603.0	547.4	534.8	577.9	631.7	642.5
55°	13219.8	8966.4	1550.6	987.1	775.3	631.7	561.7	520.5	551.0	595.8	604.8
57.5°	15010.9	10560.1	1783.9	1033.8	789.7	651.5	576.1	506.1	516.9	549.2	556.4
60°	17435.6	12814.2	2194.9	1110.9	822.0	658.7	574.3	493.5	482.8	500.7	504.3
62.5°	20341.2	15262.2	2537.7	1207.8	875.8	664.0	563.5	484.6	454.1	454.1	457.7
65°	22065.9	15917.3	2347.5	1288.6	920.7	658.7	551.0	475.6	432.5	412.8	414.6
67.5°	20603.2	13998.7	2011.9	1304.8	918.9	633.5	531.2	459.4	411.0	380.5	378.7
69°	18770.9	12078.4	1861.1	1261.7	875.8	601.2	506.1	441.5	394.8	362.5	360.7
70°	17293.8	10906.4	1762.4	1215.0	829.2	577.9	486.4	425.3	382.3	351.8	348.2
72.5°	12573.7	7146.5	1505.8	1044.5	683.8	484.6	420.0	373.3	341.0	323.0	319.5
75°	6283.3	3408.2	1222.2	847.1	524.1	387.7	344.6	312.3	296.1	292.5	290.7
77.5°	2063.9	1561.4	874.0	631.7	389.5	303.3	278.2	254.8	251.3	262.0	258.4
80°	1134.3	908.1	554.6	418.2	265.6	222.5	219.0	206.4	211.8	229.7	226.1
82.5°	577.9	472.0	342.8	251.3	179.5	159.7	174.1	166.9	174.1	190.2	188.4
85°	285.4	258.4	217.2	152.6	118.5	102.3	123.8	129.2	132.8	145.4	145.4
87.5°	165.1	152.6	114.9	71.8	59.2	53.8	71.8	70.0	82.6	89.7	87.9
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)