

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: P323201

Luminaire Tested: **GAN-SA7B-740-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323201
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-21)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA7B-740-U-SL2-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 33480 lumens
Efficiency: N/A
Efficacy: 113.5 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B3 - U0 - G5

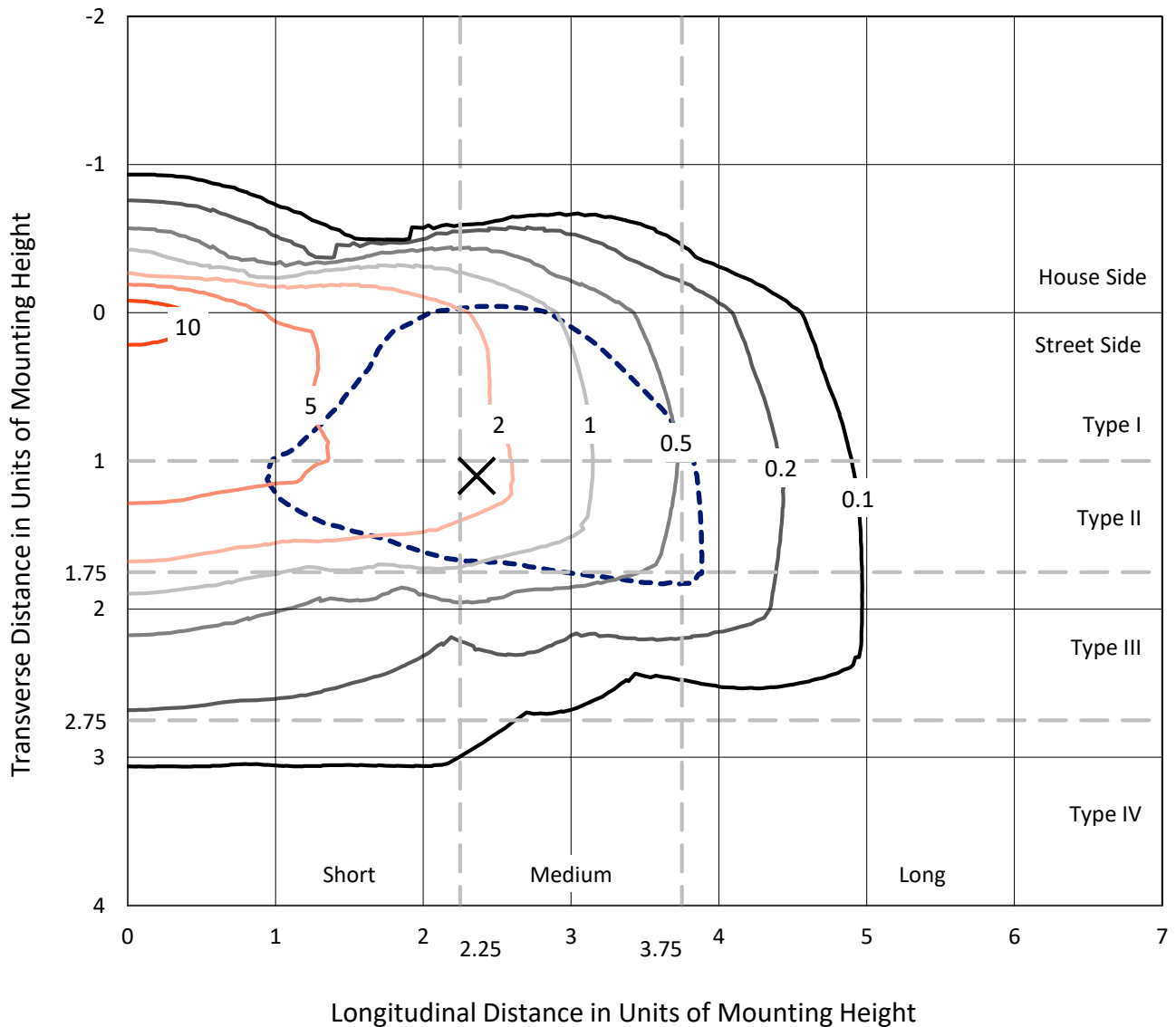
Input Watts (W): 295
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

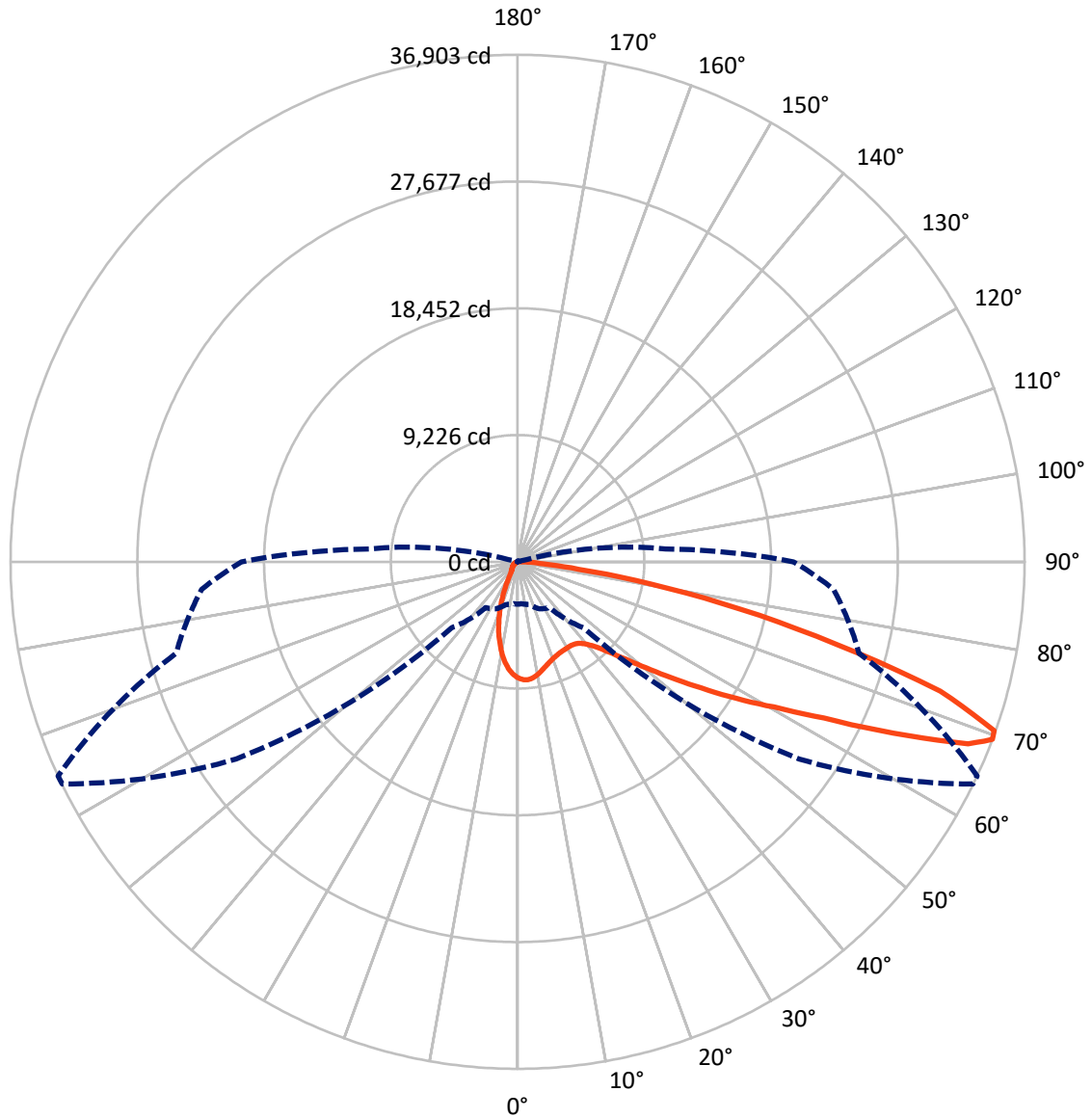
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3946.5	0.0	3946.5
	% Fixture	11.8	0.0	11.8
Street Side	Lumens	29533.5	0.0	29533.5
	% Fixture	88.2	0.0	88.2
Total	Lumens	33480.0	0.0	33480.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	707.5	2.1
10°-20°	1548.7	4.6
20°-30°	2145.0	6.4
30°-40°	2990.8	8.9
40°-50°	4648.7	13.9
50°-60°	7462.9	22.3
60°-70°	8441.8	25.2
70°-80°	4958.0	14.8
80°-90°	576.7	1.7
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°	33480.0	100.0
0°-180°	33480.0	100.0

Coefficient of Utilization

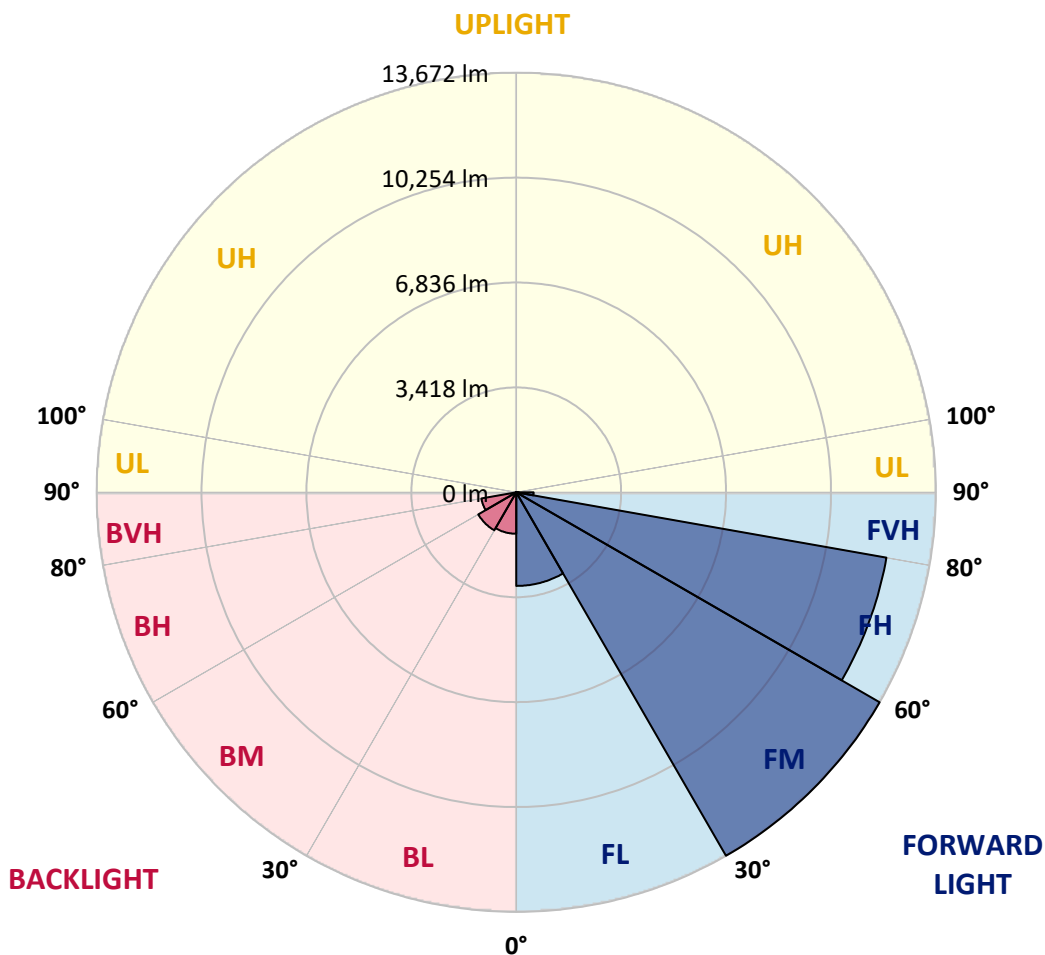


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3050.8	9.1			
FM (30°-60°)	13672.3	40.8			
FH (60°-80°)	12246.7	36.6			G5
FVH (80°-90°)	563.8	1.7			G4/750
BL (0°-30°)	1350.3	4.0	B3/2500		
BM (30°-60°)	1430.1	4.3	B2/2500		
BH (60°-80°)	1153.1	3.4	B3/2500		G3/2500
BVH (80°-90°)	13.0	0.0			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°	64°	65°	75°	85°
0°	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5
2.5°	8535.5	8514.3	8531.3	8568.1	8586.5	8586.5	8600.7	8583.7	8589.4	8548.3	8488.8
5°	8001.4	7968.9	8015.6	8119.0	8246.5	8355.6	8517.1	8602.1	8610.6	8612.0	8542.6
7.5°	7426.3	7396.5	7465.9	7587.8	7752.1	7954.7	8236.6	8483.1	8497.3	8630.5	8579.5
10°	6958.8	6937.5	7018.3	7148.6	7341.3	7567.9	7913.6	8256.5	8297.5	8592.2	8573.8
12.5°	6587.6	6570.6	6647.1	6797.3	6994.2	7244.9	7606.2	8004.3	8059.5	8505.8	8545.5
15°	6317.0	6314.2	6377.9	6522.4	6740.6	6974.4	7344.1	7770.5	7834.3	8412.3	8541.2
17.5°	6175.3	6179.6	6226.3	6349.6	6536.6	6768.9	7123.1	7573.6	7643.0	8328.7	8562.5
20°	6161.2	6165.4	6190.9	6260.3	6411.9	6617.3	6943.2	7407.9	7480.1	8266.4	8596.5
22.5°	6285.8	6283.0	6290.1	6283.0	6368.0	6523.8	6824.2	7280.4	7363.9	8225.3	8623.4
25°	6525.3	6521.0	6518.2	6465.8	6409.1	6492.7	6774.6	7208.1	7287.4	8195.5	8639.0
27.5°	6858.2	6855.3	6851.1	6764.7	6594.7	6542.3	6780.3	7181.2	7247.8	8171.5	8636.1
30°	7295.9	7315.8	7310.1	7189.7	6924.8	6693.8	6839.8	7167.0	7225.1	8124.7	8606.4
32.5°	7810.2	7849.9	7881.0	7752.1	7420.6	6994.2	6977.2	7182.6	7225.1	8089.3	8552.5
35°	8344.3	8395.3	8510.0	8464.7	8028.4	7446.1	7213.8	7276.1	7311.5	8109.1	8527.0
37.5°	8869.9	8930.8	9180.1	9311.9	8824.5	8043.9	7582.1	7507.0	7525.4	8229.5	8555.4
40°	9480.5	9572.6	9950.8	10163.3	9775.1	8844.4	8133.2	7903.7	7910.8	8494.5	8687.1
42.5°	10282.3	10377.2	10786.7	11119.6	10846.2	9855.9	8881.2	8510.0	8503.0	8990.3	8997.4
45°	11259.8	11359.0	11782.6	12152.3	12029.1	11054.4	9838.9	9395.5	9387.0	9772.3	9585.3
47.5°	12367.7	12465.4	12843.7	13224.8	13357.9	12454.1	11058.7	10603.9	10584.1	10858.9	10493.4
50°	13318.3	13382.0	13730.5	14243.4	14844.0	14174.0	12575.9	12138.2	12116.9	12302.5	11826.5
52.5°	13663.9	13700.8	14055.0	14773.2	16272.1	16503.0	14569.2	14005.4	13989.8	14070.5	13601.6
55°	12964.1	13030.7	13465.6	14531.0	17045.6	19135.2	17085.2	16317.4	16199.8	16025.6	15457.5
57.5°	11057.2	11163.5	11631.0	13047.7	16684.3	21223.4	20782.8	18932.6	18759.8	17694.4	16966.2
60°	8284.8	8415.1	8803.3	10331.9	14756.2	21967.1	24823.2	21846.7	21457.1	19023.3	18353.2
62.5°	5685.2	5750.3	6013.8	7009.8	10867.4	20748.8	28203.4	25749.7	25038.5	20468.3	19853.5
65°	4342.1	4364.8	4472.5	4815.3	6471.4	16854.3	29547.8	30899.4	30039.4	22196.7	21410.4
67.5°	3499.2	3480.8	3629.6	4119.7	4333.6	10282.3	27979.6	35771.3	35369.0	24507.3	22977.2
69°	3085.5	3060.0	3211.6	3781.1	4070.1	6797.3	25013.0	36877.8	36903.3	25727.0	23084.9
70°	2776.7	2793.7	2943.9	3580.0	3980.9	5335.2	22179.7	36595.9	36797.0	26183.2	22438.9
72.5°	1854.4	1899.8	2201.5	2972.2	3827.9	4037.6	13391.9	31403.7	32177.2	25156.1	19251.4
75°	1045.5	1079.5	1437.9	2241.2	3606.9	3844.9	7073.5	23135.9	23883.9	21036.4	14845.5
77.5°	512.8	531.3	813.2	1446.4	3016.1	3663.6	4012.1	15715.3	16569.6	13730.5	8396.7
80°	216.8	226.7	406.6	892.5	2156.2	3496.4	2979.3	9671.7	9778.0	5379.2	2236.9
82.5°	83.6	86.4	171.4	556.8	1369.9	2725.7	2492.0	4585.8	4475.3	1012.9	510.0
85°	9.9	11.3	62.3	334.3	762.2	1402.5	2024.4	1976.3	1828.9	201.2	262.1
87.5°	0.0	0.0	4.3	102.0	226.7	657.3	1052.6	820.3	739.5	65.2	136.0
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°	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5	8460.5
2.5°	8439.2	8425.0	8348.5	8238.0	8133.2	8002.9	7878.2	7803.1	7743.6	7703.9	7750.7
5°	8461.9	8399.5	8167.2	7869.7	7577.9	7249.2	6943.2	6683.9	6581.9	6468.6	6519.6
7.5°	8454.8	8337.2	7919.3	7389.4	6853.9	6300.0	5775.8	5372.1	5162.4	4957.0	5009.4
10°	8419.4	8221.0	7587.8	6802.9	6001.1	5204.9	4461.1	3895.9	3580.0	3293.8	3334.9
12.5°	8341.5	8065.2	7196.8	6131.4	5059.0	4009.2	3138.0	2414.0	2025.9	1854.4	1875.7
15°	8294.7	7913.6	6783.1	5451.4	4053.1	2792.3	1918.2	1426.6	1249.5	1192.9	1199.9
17.5°	8272.0	7767.7	6355.3	4673.7	3024.6	1777.9	1239.6	1093.7	1055.4	1045.5	1048.3
20°	8249.4	7620.4	5914.7	3904.4	2083.9	1195.7	1018.6	976.1	961.9	949.2	952.0
22.5°	8211.1	7478.7	5441.5	3125.2	1405.4	970.4	918.0	876.9	847.2	831.6	834.4
25°	8164.4	7329.9	4958.4	2327.6	1025.7	865.6	816.0	757.9	722.5	694.2	695.6
27.5°	8089.3	7147.2	4459.7	1694.4	861.3	774.9	708.3	644.6	585.1	552.5	552.5
30°	7984.4	6940.3	3905.8	1212.7	772.1	685.7	604.9	525.6	461.8	432.1	429.3
32.5°	7868.3	6725.0	3346.2	919.4	701.3	602.1	510.0	426.4	369.8	345.7	344.3
35°	7769.1	6492.7	2788.0	770.7	630.4	521.3	420.8	349.9	304.6	284.8	283.3
37.5°	7705.4	6260.3	2244.0	688.5	566.7	446.3	352.8	289.0	256.4	240.8	239.4
40°	7695.4	6087.5	1746.8	626.2	507.2	379.7	294.7	245.1	215.3	198.3	196.9
42.5°	7824.4	5988.3	1340.2	573.8	446.3	321.6	250.8	209.7	178.5	161.5	160.1
45°	8163.0	6019.5	1031.3	527.0	385.3	272.0	212.5	174.3	145.9	133.2	130.3
47.5°	8780.6	6234.8	820.3	480.3	327.3	230.9	181.3	144.5	120.4	107.7	106.3
50°	9880.0	6740.6	685.7	429.3	273.4	196.9	150.2	117.6	97.8	86.4	85.0
52.5°	11339.2	7641.6	612.0	379.7	226.7	167.2	123.3	93.5	76.5	68.0	66.6
55°	12948.5	8732.5	563.8	325.8	185.6	138.8	97.8	73.7	59.5	52.4	49.6
57.5°	14519.6	9677.4	518.5	273.4	154.4	113.3	77.9	58.1	46.8	39.7	38.3
60°	15963.2	10545.8	466.1	219.6	126.1	89.3	60.9	45.3	36.8	29.8	29.8
62.5°	17508.8	11217.3	393.8	171.4	103.4	68.0	49.6	41.1	29.8	25.5	24.1
65°	19146.5	11716.0	308.8	133.2	80.8	51.0	41.1	42.5	24.1	18.4	17.0
67.5°	20356.4	11616.8	228.1	104.8	62.3	39.7	39.7	45.3	21.3	14.2	12.8
69°	20090.0	10810.7	191.3	90.7	53.8	34.0	36.8	45.3	19.8	12.8	11.3
70°	19317.9	9918.2	168.6	80.8	48.2	31.2	35.4	43.9	18.4	12.8	11.3
72.5°	16087.9	7470.2	131.8	60.9	38.3	25.5	29.8	38.3	18.4	12.8	9.9
75°	12101.3	4781.3	100.6	43.9	28.3	19.8	22.7	28.3	18.4	11.3	9.9
77.5°	6584.8	1724.1	72.3	29.8	19.8	15.6	15.6	21.3	17.0	8.5	5.7
80°	1692.9	433.5	45.3	19.8	15.6	11.3	9.9	14.2	9.9	1.4	0.0
82.5°	417.9	97.8	24.1	14.2	11.3	4.3	4.3	7.1	4.3	0.0	0.0
85°	229.5	48.2	15.6	9.9	5.7	0.0	0.0	1.4	0.0	0.0	0.0
87.5°	117.6	14.2	4.3	2.8	1.4	0.0	0.0	0.0	0.0	0.0	0.0
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)