

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: P192857

Luminaire Tested: **GAN-AF-09-LED-U-SL3-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192857
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24289)
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-SL3-7030-600-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28969 lumens
Efficiency: N/A
Efficacy: 99.9 lumens/watt
Luminous Opening: Rectangular (W 2.5' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B2 - U0 - G4

Input Watts (W): 290
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

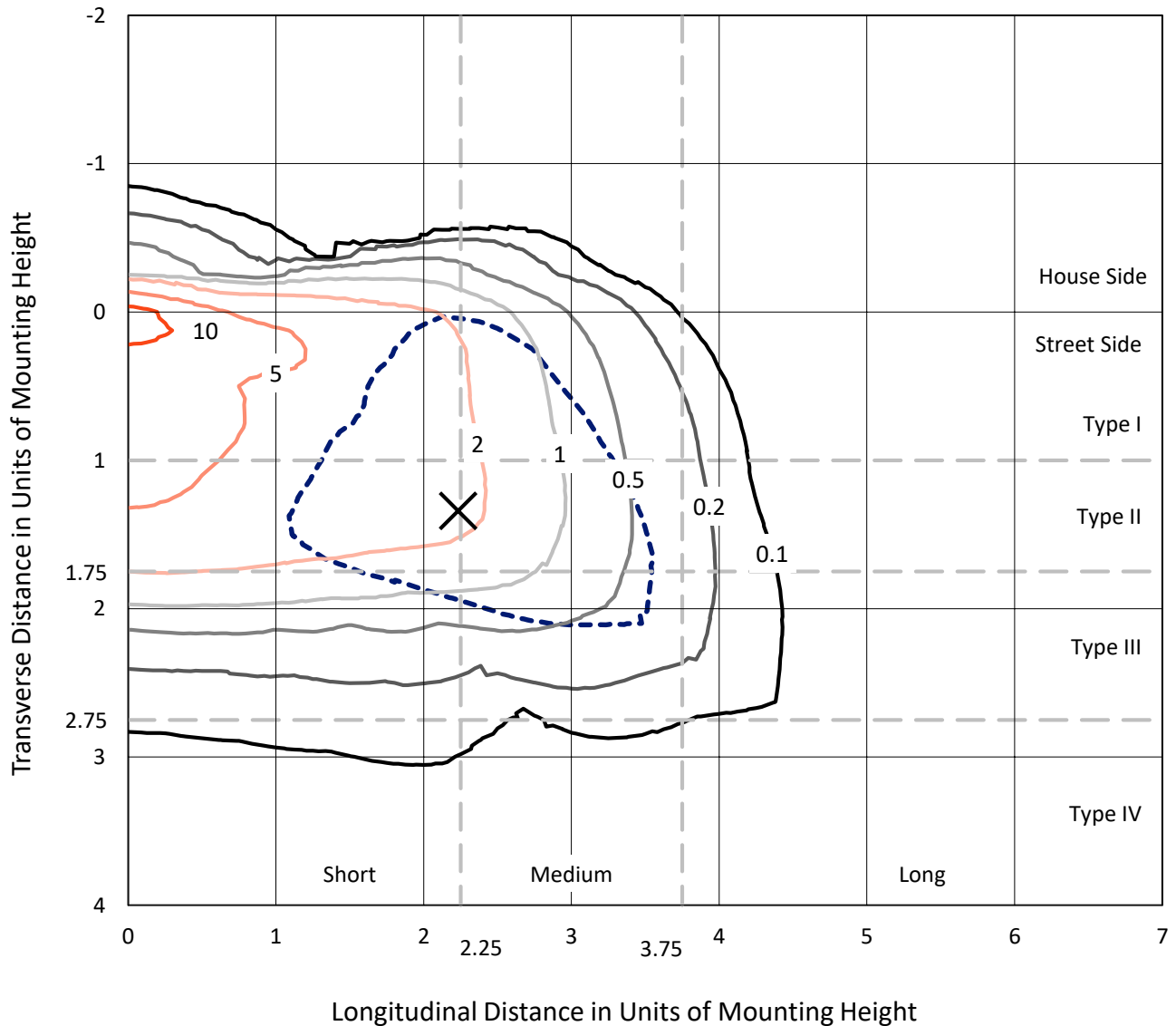


REPORT NUMBER: P192857

CATALOG NUMBER: GAN-AF-09-LED-U-SL3-7030-600-HSS

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

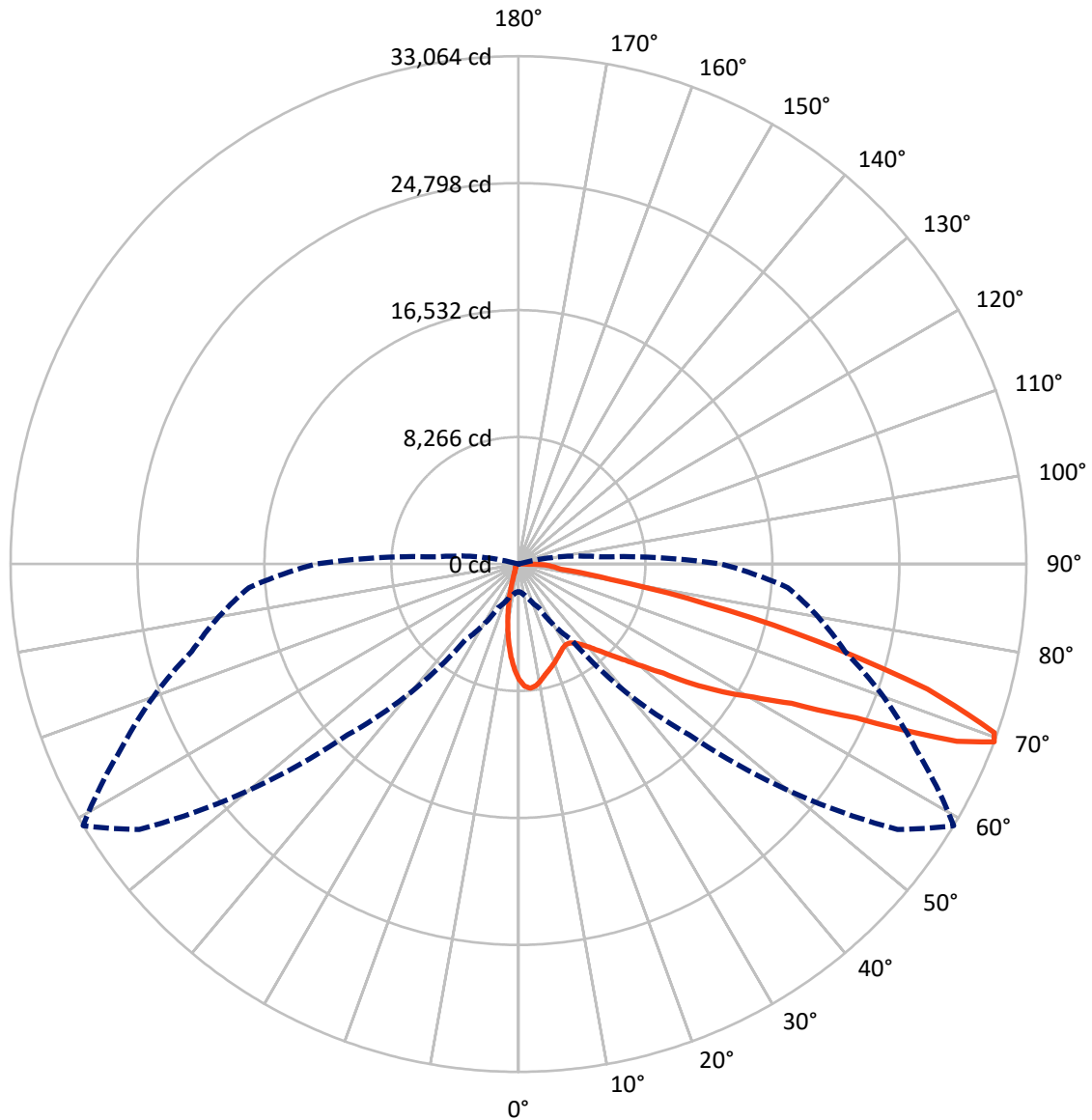


Based on 25 foot mounting height. Maximum calculated value = 12.1 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P192857

CATALOG NUMBER: GAN-AF-09-LED-U-SL3-7030-600-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

REPORT NUMBER: P192857

CATALOG NUMBER: GAN-AF-09-LED-U-SL3-7030-600-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2359.2	0.0	2359.2
	% Fixture	8.1	0.0	8.1
Street Side	Lumens	26609.8	0.0	26609.8
	% Fixture	91.9	0.0	91.9
Total	Lumens	28969.0	0.0	28969.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	612.0	2.1
10°-20°	1264.6	4.4
20°-30°	1701.7	5.9
30°-40°	2470.8	8.5
40°-50°	4114.1	14.2
50°-60°	6418.0	22.2
60°-70°	7941.7	27.4
70°-80°	4024.8	13.9
80°-90°	421.1	1.5
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°	28969.0	100.0
0°-180°	28969.0	100.0



REPORT NUMBER: P192857

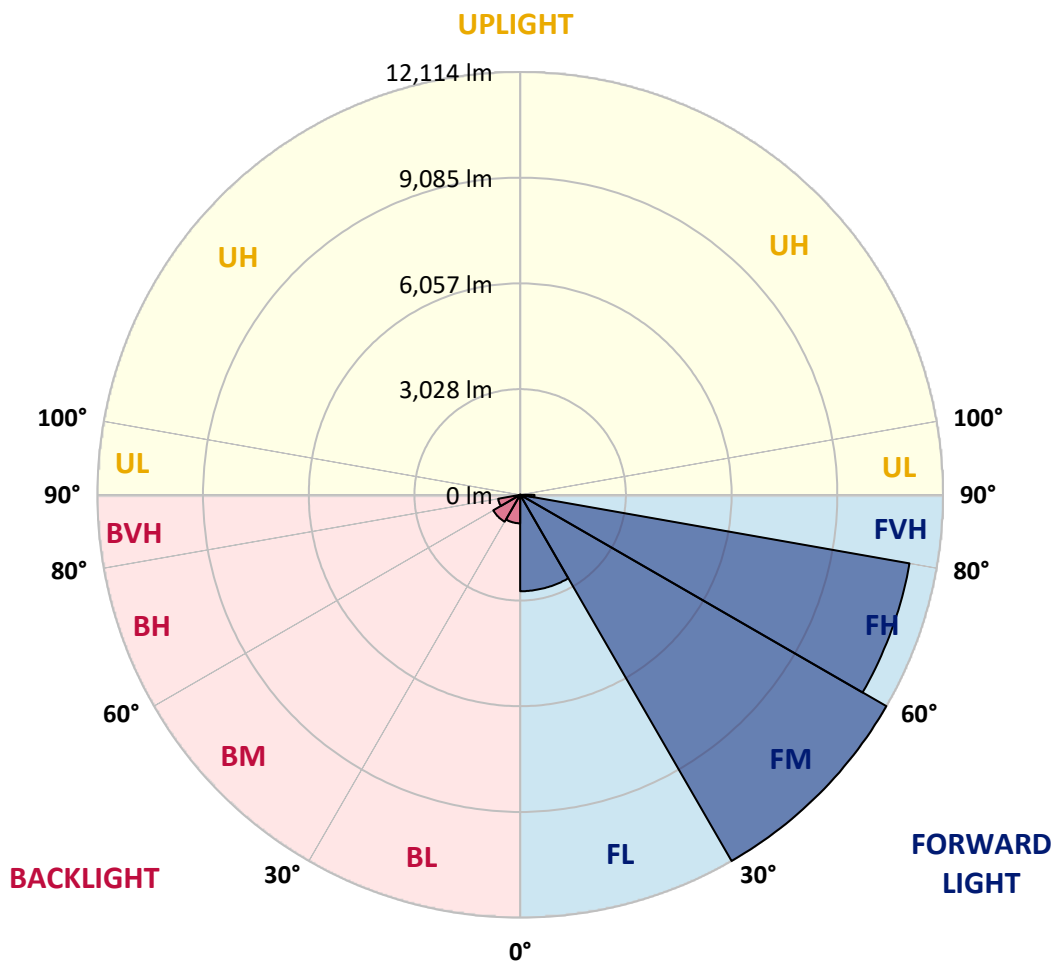
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2761.9	9.5			
FM (30°-60°)	12114.0	41.8			
FH (60°-80°)	11325.8	39.1			G4/12000
FVH (80°-90°)	408.2	1.4			G3/500
BL (0°-30°)	816.6	2.8	B2/1000		
BM (30°-60°)	888.9	3.1	B1/1000		
BH (60°-80°)	640.7	2.2	B2/1000		G2/1000
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: B2-U0-G4

Type III Short





REPORT NUMBER: P192857

CATALOG NUMBER: GAN-AF-09-LED-U-SL3-7030-600-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7540.2	7540.2	7540.2	7540.2	7540.2	7540.2	7540.2	7540.2	7540.2	7540.2	7540.2
2.5°	8264.3	8261.0	8224.9	8208.5	8179.1	8116.9	8020.1	7969.4	7887.5	7745.0	7553.3
5°	8188.9	8228.2	8249.5	8251.2	8272.4	8249.5	8162.8	8120.1	8007.1	7777.7	7433.8
7.5°	7677.8	7692.6	7753.1	7805.6	7907.2	8003.8	8034.9	8016.9	7949.7	7704.1	7247.0
10°	7130.7	7145.4	7217.5	7286.3	7423.9	7573.0	7730.2	7763.0	7790.8	7599.2	7066.8
12.5°	6659.0	6673.7	6747.5	6837.5	6998.0	7181.5	7425.6	7479.7	7602.5	7499.2	6922.6
15°	6252.7	6259.3	6331.3	6442.7	6634.3	6870.2	7147.0	7233.9	7422.3	7428.9	6796.6
17.5°	5907.0	5923.4	5967.6	6074.2	6283.8	6575.3	6898.1	7022.6	7243.8	7369.9	6673.7
20°	5695.6	5712.1	5710.4	5769.4	5957.8	6269.1	6649.1	6798.1	7066.8	7309.2	6564.0
22.5°	5654.7	5654.7	5612.2	5604.0	5715.4	5975.8	6390.2	6572.1	6907.9	7283.0	6486.9
25°	5800.6	5794.0	5687.5	5600.7	5605.6	5761.2	6139.6	6355.8	6773.6	7301.0	6446.0
27.5°	6108.4	6100.4	5966.0	5800.6	5667.9	5666.1	5949.6	6182.2	6667.1	7386.3	6462.3
30°	6534.5	6531.2	6385.3	6177.3	5936.5	5715.4	5884.0	6095.5	6598.2	7540.2	6500.1
32.5°	6999.7	6994.8	6885.0	6665.5	6360.7	5936.5	5952.9	6129.8	6618.0	7745.0	6591.7
35°	7492.7	7484.6	7437.1	7245.4	6909.5	6344.3	6178.9	6316.6	6742.5	8051.4	6772.0
37.5°	8026.7	8034.9	8069.4	7885.9	7533.7	6916.1	6557.4	6650.7	6993.1	8467.4	7065.1
40°	8814.7	8813.1	8824.6	8583.7	8244.6	7615.6	7086.4	7115.9	7412.4	9019.5	7510.7
42.5°	10244.8	10144.8	9841.7	9350.3	9009.6	8414.9	7753.1	7722.0	7925.2	9702.6	8134.9
45°	12166.2	11953.3	11167.1	10225.1	9789.4	9316.0	8573.9	8473.9	8603.4	10523.2	8904.7
47.5°	13819.1	13598.0	12485.7	11135.9	10616.6	10171.1	9535.5	9355.3	9397.8	11442.1	9881.1
50°	14381.0	14272.9	13301.4	11928.7	11417.6	11247.2	10651.0	10431.5	10370.9	12505.4	11013.0
52.5°	14186.0	14177.8	13530.7	12443.1	12151.5	12361.1	12054.9	11801.0	11578.2	13625.8	12164.6
55°	13873.2	13914.1	13624.2	12893.5	12883.8	13378.5	13974.7	13763.4	13118.0	14843.0	13157.3
57.5°	13009.9	13185.2	13571.7	13745.4	14148.4	14654.5	15573.5	15698.1	14934.6	15775.1	13981.3
60°	10556.0	10941.0	12205.6	13868.3	15778.3	17039.6	17503.3	17609.8	16425.4	16549.8	15093.5
62.5°	7492.7	7885.9	9489.6	12302.3	15802.8	20173.3	20378.2	19960.3	18066.8	17698.2	17011.7
65°	3977.4	4280.3	5590.9	8880.1	13701.2	20900.6	25405.5	24160.5	20962.9	19957.1	19490.2
67.5°	2034.5	2126.3	2647.3	4345.9	9419.1	18564.7	29911.9	30788.2	25954.2	22198.1	19370.7
69°	1800.3	1854.3	2199.9	3141.9	6031.5	15724.3	30131.4	33063.7	28567.0	22011.3	17603.2
70°	1742.9	1790.4	2105.0	2843.8	4714.5	13186.8	29291.1	32863.8	29235.4	21300.4	16282.8
72.5°	1479.3	1520.2	1874.1	2512.9	3831.5	6545.9	23793.6	27847.9	26234.4	17744.0	11786.3
75°	989.5	1123.7	1798.6	2355.6	3564.6	3718.5	15686.6	20124.3	18694.1	11968.0	6139.6
77.5°	237.5	255.5	507.8	1874.1	3259.9	3273.0	8067.7	12510.3	10203.8	4265.6	1451.4
80°	127.8	122.8	142.5	371.8	3035.4	3071.5	3631.7	6072.5	3643.1	707.7	478.3
82.5°	90.1	85.2	91.8	155.5	955.0	2797.9	2627.5	2748.8	1510.3	271.9	214.5
85°	32.8	31.1	50.8	140.8	299.8	1608.7	2699.6	2267.1	1223.7	124.4	157.3
87.5°	11.5	9.9	19.6	77.0	91.8	684.7	1665.9	1713.5	481.7	75.4	73.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P192857

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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7540.2	7540.2	7540.2	7540.2	7540.2	7540.2	7540.2	7540.2	7540.2	7540.2	7540.2
2.5°	7473.2	7371.5	7184.8	6993.1	6816.1	6603.2	6496.8	6391.8	6347.6	6331.3	6254.3
5°	7256.9	7084.8	6688.5	6290.4	5923.4	5533.6	5276.3	5069.9	4948.8	4889.8	4796.4
7.5°	6980.0	6698.2	6097.1	5482.7	4911.1	4347.5	3929.8	3608.8	3387.6	3281.2	3184.5
10°	6711.4	6336.3	5481.1	4644.1	3867.6	3120.6	2544.0	2126.3	1859.3	1736.3	1657.8
12.5°	6470.6	5984.0	4886.5	3826.6	2852.0	1977.1	1390.8	1058.1	892.7	835.4	807.5
15°	6255.9	5659.6	4324.6	3050.2	1931.3	1130.3	760.1	647.1	620.8	620.8	617.6
17.5°	6052.9	5341.9	3782.4	2321.2	1212.2	691.3	578.2	563.6	563.6	570.2	570.2
20°	5857.9	5038.8	3258.2	1665.9	763.4	548.8	522.6	519.3	522.6	530.8	530.8
22.5°	5690.8	4763.6	2768.4	1143.4	566.8	494.7	481.7	476.7	478.3	483.3	486.5
25°	5566.3	4531.0	2306.5	774.8	488.2	450.4	435.7	427.5	420.9	420.9	424.3
27.5°	5487.6	4334.5	1859.3	563.6	439.0	409.5	386.6	373.4	358.7	350.5	353.8
30°	5430.3	4147.7	1439.9	460.3	393.2	363.7	334.3	312.9	291.6	281.8	285.0
32.5°	5409.1	3997.0	1076.2	406.2	352.2	319.5	283.4	255.5	232.6	224.4	226.0
35°	5466.3	3877.4	788.0	366.9	319.5	278.5	237.5	206.4	188.4	183.4	185.0
37.5°	5617.1	3813.4	589.7	334.3	290.0	244.0	198.2	168.7	157.3	157.3	158.9
40°	5902.0	3811.8	473.4	311.3	263.8	211.3	163.8	142.5	135.9	139.2	140.8
42.5°	6318.3	3898.7	412.8	290.0	240.8	180.2	135.9	121.2	119.5	122.8	124.4
45°	6886.6	4057.6	380.0	271.9	216.3	150.7	114.7	104.9	104.9	109.8	111.5
47.5°	7582.8	4290.2	352.2	253.9	191.6	126.0	98.4	91.8	93.4	98.4	100.0
50°	8421.4	4583.4	324.4	234.3	173.6	104.9	85.2	80.3	82.0	88.5	90.1
52.5°	9376.5	4978.2	301.4	216.3	150.7	86.9	72.1	68.9	72.1	78.6	80.3
55°	10195.6	5332.1	273.5	201.5	121.2	72.1	59.0	59.0	62.3	70.5	72.1
57.5°	10983.5	5702.2	249.0	173.6	95.0	57.4	49.1	50.8	55.7	63.9	65.5
60°	12140.1	6329.7	219.5	145.8	72.1	45.9	41.0	42.6	49.1	57.4	59.0
62.5°	14104.2	7284.7	190.0	121.2	55.7	36.0	32.8	36.0	44.2	54.1	55.7
65°	15876.6	7672.9	155.5	101.6	42.6	27.9	27.9	32.8	42.6	52.5	54.1
67.5°	14888.8	6459.1	121.2	80.3	32.8	21.3	23.0	31.1	41.0	52.5	54.1
69°	13167.2	5281.3	103.2	63.9	27.9	19.6	21.3	31.1	41.0	50.8	52.5
70°	11825.5	4459.0	91.8	54.1	24.6	19.6	21.3	29.5	41.0	50.8	52.5
72.5°	7920.3	2408.1	73.8	39.4	23.0	18.0	18.0	29.5	39.4	49.1	50.8
75°	3404.0	665.1	59.0	27.9	19.6	16.4	16.4	27.9	37.7	47.5	50.8
77.5°	622.4	168.7	47.5	24.6	19.6	16.4	14.7	26.2	36.0	45.9	47.5
80°	247.4	83.6	37.7	21.3	18.0	14.7	13.1	24.6	34.4	44.2	45.9
82.5°	149.0	47.5	31.1	19.6	18.0	13.1	11.5	21.3	32.8	42.6	44.2
85°	121.2	32.8	24.6	19.6	16.4	13.1	9.9	19.6	29.5	41.0	42.6
87.5°	59.0	23.0	23.0	18.0	16.4	13.1	9.9	18.0	27.9	39.4	41.0
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)