

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: P323219

Luminaire Tested: **GAN-SA5D-740-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323219  
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-SA5D-740-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(5) 70 CRI, 4000K, 1200mA 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: 32121 lumens  
Efficiency: N/A  
Efficacy: 100.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G4

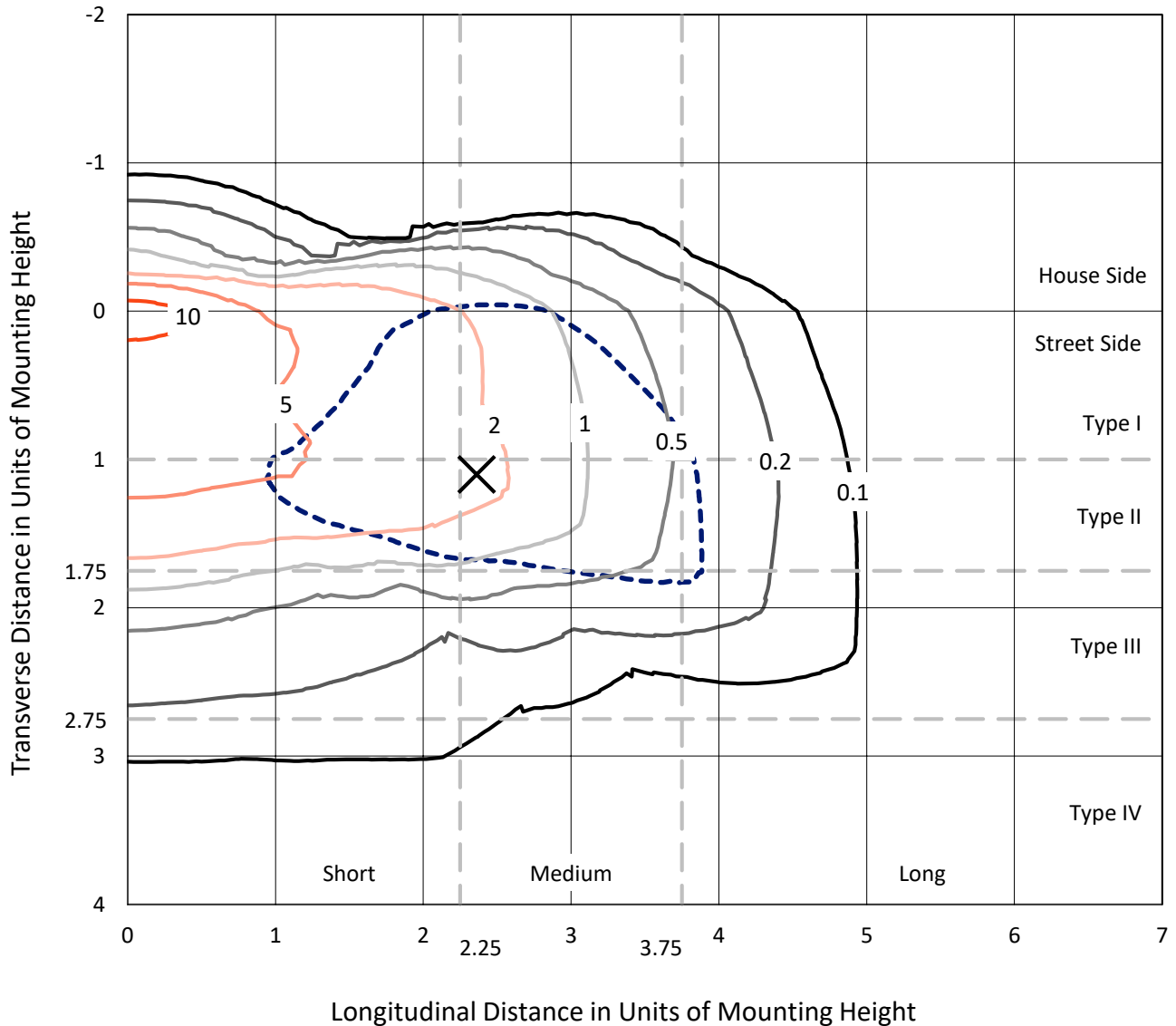
Input Watts (W): 320  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

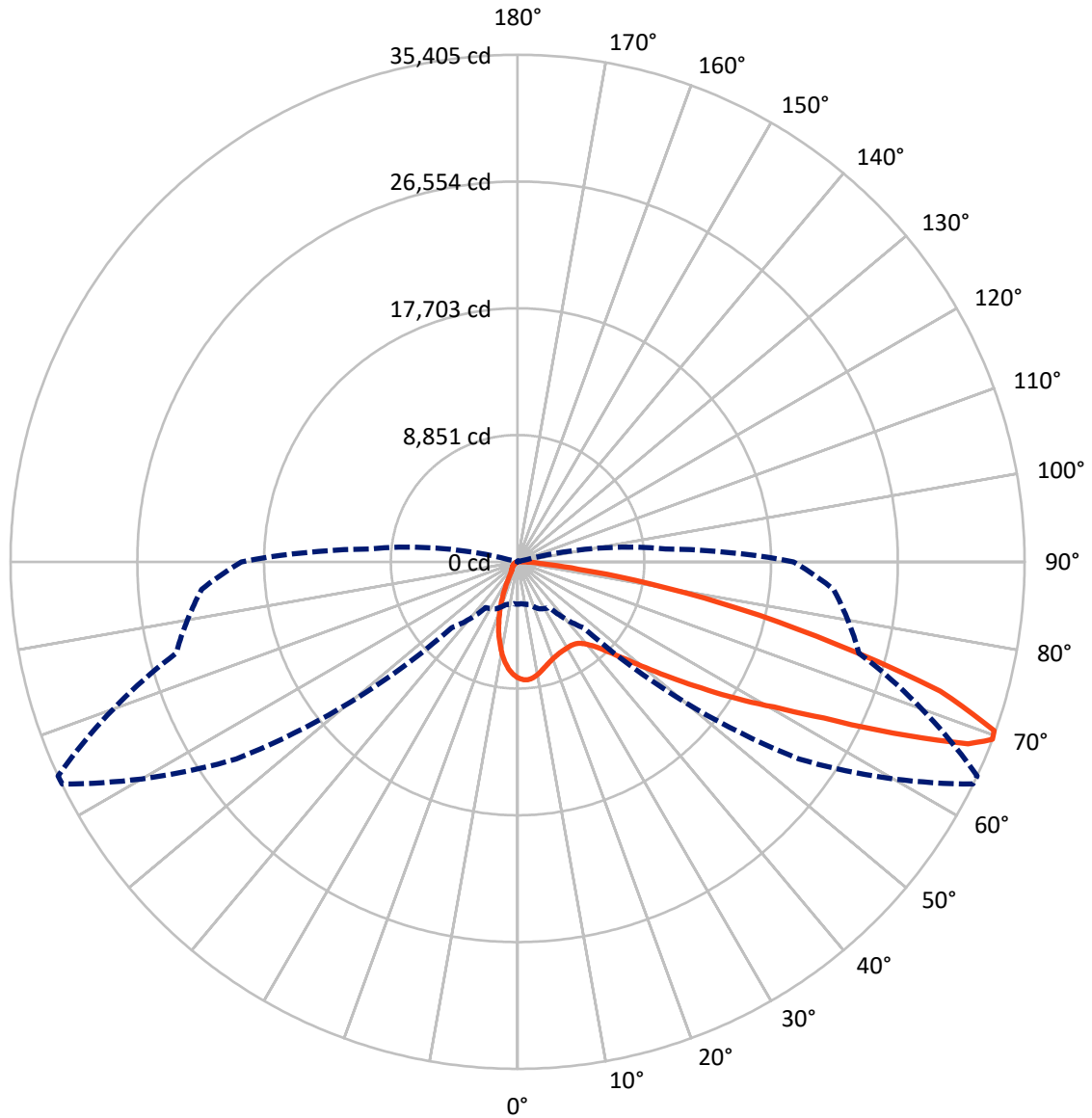
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 13 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
<b>House Side</b>	Lumens	3786.3	0.0	3786.3
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	28334.7	0.0	28334.7
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	32121.0	0.0	32121.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	678.7	2.1
10°-20°	1485.8	4.6
20°-30°	2057.9	6.4
30°-40°	2869.4	8.9
40°-50°	4460.0	13.9
50°-60°	7160.0	22.3
60°-70°	8099.1	25.2
70°-80°	4756.7	14.8
80°-90°	553.3	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°	32121.0	100.0
0°-180°	32121.0	100.0

**Coefficient of Utilization**

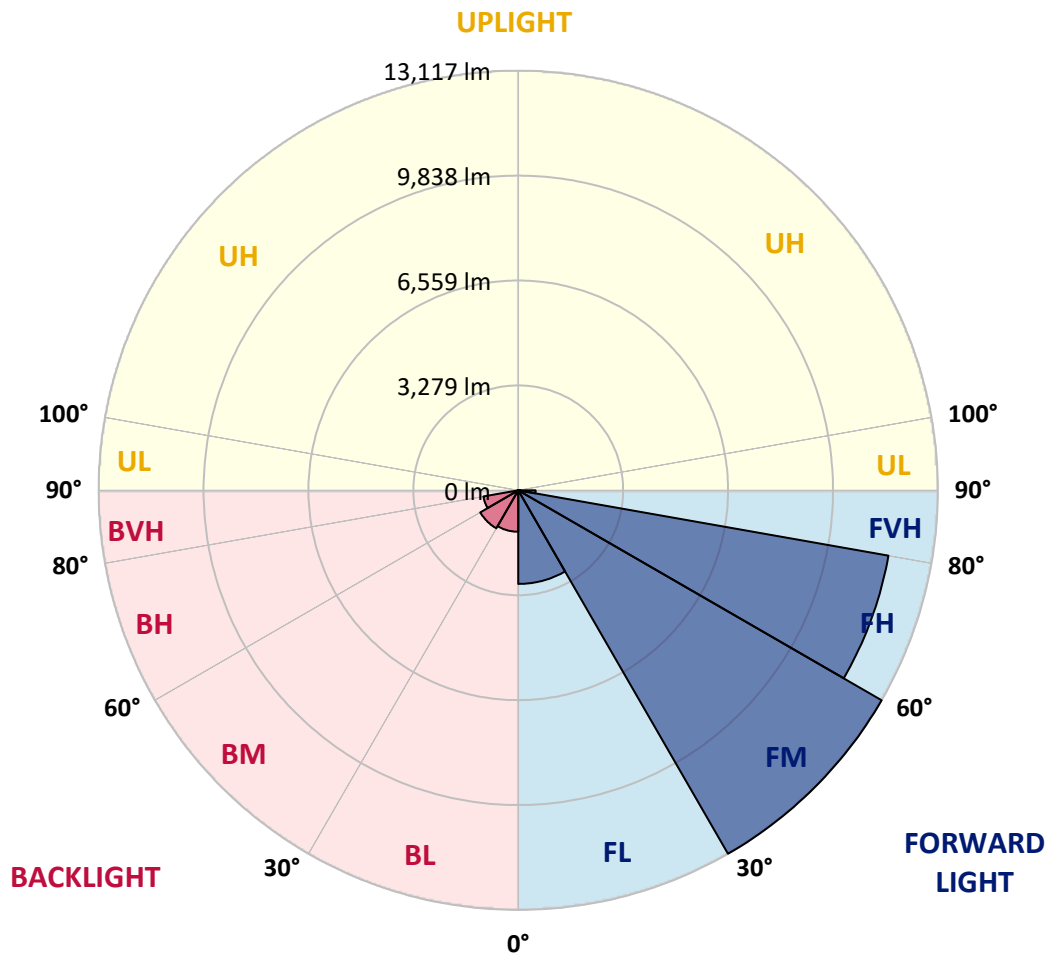


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2927.0	9.1			
FM (30°-60°)	13117.3	40.8			
FH (60°-80°)	11749.6	36.6			G4/12000
FVH (80°-90°)	540.9	1.7			G4/750
BL (0°-30°)	1295.5	4.0	B3/2500		
BM (30°-60°)	1372.1	4.3	B2/2500		
BH (60°-80°)	1106.3	3.4	B3/2500		G3/2500
BVH (80°-90°)	12.4	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-G4**  
 Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	8117.0	8117.0	8117.0	8117.0	8117.0	8117.0	8117.0	8117.0	8117.0	8117.0	8117.0
2.5°	8189.1	8168.7	8185.0	8220.3	8238.0	8238.0	8251.6	8235.3	8240.7	8201.3	8144.2
5°	7676.7	7645.4	7690.2	7789.5	7911.8	8016.5	8171.4	8253.0	8261.1	8262.5	8195.9
7.5°	7124.8	7096.3	7162.9	7279.8	7437.4	7631.8	7902.3	8138.8	8152.4	8280.1	8231.2
10°	6676.3	6655.9	6733.4	6858.4	7043.3	7260.7	7592.4	7921.3	7960.7	8243.4	8225.8
12.5°	6320.2	6303.9	6377.3	6521.4	6710.3	6950.9	7297.4	7679.4	7732.4	8160.5	8198.6
15°	6060.6	6057.9	6119.0	6257.7	6467.0	6691.3	7046.0	7455.1	7516.3	8070.8	8194.5
17.5°	5924.7	5928.8	5973.6	6091.9	6271.3	6494.2	6834.0	7266.2	7332.8	7990.6	8214.9
20°	5911.1	5915.2	5939.6	6006.2	6151.7	6348.7	6661.3	7107.2	7176.5	7930.8	8247.5
22.5°	6030.7	6028.0	6034.8	6028.0	6109.5	6259.0	6547.2	6984.8	7065.0	7891.4	8273.3
25°	6260.4	6256.3	6253.6	6203.3	6148.9	6229.1	6499.6	6915.5	6991.6	7862.9	8288.3
27.5°	6579.8	6577.1	6573.0	6490.1	6327.0	6276.7	6505.0	6889.7	6953.6	7839.8	8285.6
30°	6999.8	7018.8	7013.4	6897.8	6643.7	6422.1	6562.1	6876.1	6931.8	7794.9	8257.0
32.5°	7493.2	7531.2	7561.1	7437.4	7119.4	6710.3	6694.0	6891.1	6931.8	7760.9	8205.4
35°	8005.6	8054.5	8164.6	8121.1	7702.5	7143.9	6921.0	6980.8	7014.7	7780.0	8180.9
37.5°	8509.8	8568.3	8807.5	8933.9	8466.3	7717.4	7274.3	7202.3	7220.0	7895.5	8208.1
40°	9095.6	9184.0	9546.9	9750.8	9378.4	8485.4	7803.1	7582.9	7589.7	8149.7	8334.5
42.5°	9864.9	9956.0	10348.8	10668.2	10405.9	9455.8	8520.7	8164.6	8157.8	8625.4	8632.2
45°	10802.8	10897.9	11304.3	11659.1	11540.8	10605.7	9439.5	9014.1	9005.9	9375.6	9196.2
47.5°	11865.7	11959.4	12322.3	12688.0	12815.7	11948.6	10609.8	10173.5	10154.4	10418.1	10067.5
50°	12777.7	12838.8	13173.2	13665.2	14241.5	13598.6	12065.5	11645.5	11625.1	11803.1	11346.4
52.5°	13109.3	13144.6	13484.4	14173.5	15611.6	15833.1	13977.8	13436.9	13421.9	13499.4	13049.5
55°	12437.9	12501.8	12919.0	13941.1	16353.7	18358.5	16391.7	15655.1	15542.2	15375.1	14830.0
57.5°	10608.4	10710.4	11158.9	12518.1	16007.1	20361.9	19939.2	18164.1	17998.3	16976.2	16277.6
60°	7948.5	8073.5	8446.0	9912.5	14157.2	21075.5	23815.6	20959.9	20586.2	18251.1	17608.2
62.5°	5454.4	5516.9	5769.7	6725.2	10426.3	19906.6	27058.6	24704.5	24022.2	19637.5	19047.6
65°	4165.9	4187.6	4290.9	4619.9	6208.7	16170.2	28348.5	29645.1	28820.1	21295.7	20541.3
67.5°	3357.2	3339.5	3482.2	3952.5	4157.7	9864.9	26843.8	34319.3	33933.3	23512.5	22044.6
69°	2960.3	2935.8	3081.3	3627.7	3904.9	6521.4	23997.7	35380.9	35405.3	24682.7	22147.9
70°	2664.0	2680.3	2824.4	3434.7	3819.3	5118.7	21279.3	35110.4	35303.4	25120.4	21528.1
72.5°	1779.2	1822.7	2112.2	2851.6	3672.5	3873.7	12848.3	30129.0	30871.1	24135.0	18469.9
75°	1003.1	1035.7	1379.6	2150.2	3460.5	3688.8	6786.4	22196.8	22914.4	20182.5	14242.9
77.5°	492.0	509.7	780.2	1387.7	2893.7	3514.8	3849.2	15077.4	15897.0	13173.2	8055.9
80°	208.0	217.5	390.1	856.3	2068.7	3354.5	2858.4	9279.1	9381.1	5160.8	2146.1
82.5°	80.2	82.9	164.5	534.2	1314.3	2615.1	2390.8	4399.7	4293.7	971.8	489.3
85°	9.5	10.9	59.8	320.8	731.2	1345.6	1942.3	1896.1	1754.7	193.0	251.4
87.5°	0.0	0.0	4.1	97.9	217.5	630.7	1009.9	787.0	709.5	62.5	130.5
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°	8117.0	8117.0	8117.0	8117.0	8117.0	8117.0	8117.0	8117.0	8117.0	8117.0	8117.0
2.5°	8096.6	8083.1	8009.7	7903.6	7803.1	7678.0	7558.4	7486.4	7429.3	7391.2	7436.1
5°	8118.4	8058.6	7835.7	7550.3	7270.3	6954.9	6661.3	6412.6	6314.8	6206.0	6255.0
7.5°	8111.6	7998.8	7597.8	7089.5	6575.7	6044.3	5541.4	5154.0	4952.9	4755.8	4806.1
10°	8077.6	7887.3	7279.8	6526.8	5757.5	4993.6	4280.1	3737.7	3434.7	3160.1	3199.5
12.5°	8002.9	7737.8	6904.6	5882.5	4853.6	3846.5	3010.6	2316.0	1943.6	1779.2	1799.6
15°	7958.0	7592.4	6507.8	5230.1	3888.6	2678.9	1840.3	1368.7	1198.8	1144.4	1151.2
17.5°	7936.3	7452.4	6097.3	4483.9	2901.9	1705.8	1189.3	1049.3	1012.6	1003.1	1005.8
20°	7914.5	7311.0	5674.6	3745.9	1999.4	1147.1	977.3	936.5	922.9	910.7	913.4
22.5°	7877.8	7175.1	5220.6	2998.4	1348.3	931.0	880.7	841.3	812.8	797.8	800.6
25°	7833.0	7032.4	4757.1	2233.1	984.0	830.5	782.9	727.2	693.2	666.0	667.4
27.5°	7760.9	6857.1	4278.7	1625.6	826.4	743.5	679.6	618.4	561.3	530.1	530.1
30°	7660.3	6658.6	3747.3	1163.5	740.8	657.8	580.4	504.3	443.1	414.6	411.8
32.5°	7548.9	6452.0	3210.4	882.1	672.8	577.7	489.3	409.1	354.7	331.6	330.3
35°	7453.8	6229.1	2674.9	739.4	604.8	500.2	403.7	335.7	292.2	273.2	271.8
37.5°	7392.6	6006.2	2152.9	660.6	543.7	428.1	338.4	277.3	246.0	231.1	229.7
40°	7383.1	5840.4	1675.9	600.8	486.6	364.3	282.7	235.1	206.6	190.3	188.9
42.5°	7506.8	5745.3	1285.8	550.5	428.1	308.5	240.6	201.2	171.3	154.9	153.6
45°	7831.6	5775.2	989.5	505.6	369.7	261.0	203.9	167.2	140.0	127.8	125.0
47.5°	8424.2	5981.8	787.0	460.8	314.0	221.5	174.0	138.6	115.5	103.3	101.9
50°	9478.9	6467.0	657.8	411.8	262.3	188.9	144.1	112.8	93.8	82.9	81.6
52.5°	10878.9	7331.4	587.2	364.3	217.5	160.4	118.2	89.7	73.4	65.2	63.9
55°	12422.9	8378.0	541.0	312.6	178.1	133.2	93.8	70.7	57.1	50.3	47.6
57.5°	13930.3	9284.6	497.5	262.3	148.2	108.7	74.8	55.7	44.9	38.1	36.7
60°	15315.3	10117.7	447.2	210.7	121.0	85.6	58.4	43.5	35.3	28.5	28.5
62.5°	16798.1	10762.0	377.9	164.5	99.2	65.2	47.6	39.4	28.5	24.5	23.1
65°	18369.3	11240.4	296.3	127.8	77.5	48.9	39.4	40.8	23.1	17.7	16.3
67.5°	19530.1	11145.3	218.8	100.6	59.8	38.1	38.1	43.5	20.4	13.6	12.2
69°	19274.6	10371.9	183.5	87.0	51.6	32.6	35.3	43.5	19.0	12.2	10.9
70°	18533.8	9515.6	161.7	77.5	46.2	29.9	34.0	42.1	17.7	12.2	10.9
72.5°	15434.9	7167.0	126.4	58.4	36.7	24.5	28.5	36.7	17.7	12.2	9.5
75°	11610.1	4587.2	96.5	42.1	27.2	19.0	21.7	27.2	17.7	10.9	9.5
77.5°	6317.5	1654.1	69.3	28.5	19.0	15.0	15.0	20.4	16.3	8.2	5.4
80°	1624.2	415.9	43.5	19.0	15.0	10.9	9.5	13.6	9.5	1.4	0.0
82.5°	401.0	93.8	23.1	13.6	10.9	4.1	4.1	6.8	4.1	0.0	0.0
85°	220.2	46.2	15.0	9.5	5.4	0.0	0.0	1.4	0.0	0.0	0.0
87.5°	112.8	13.6	4.1	2.7	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)