

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: P323181

Luminaire Tested: **GAN-SA7D-730-U-SL2-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P323181  
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-SA7D-730-U-SL2-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(7) 70 CRI, 3000K, 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: 41397 lumens  
Efficiency: N/A  
Efficacy: 92.4 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

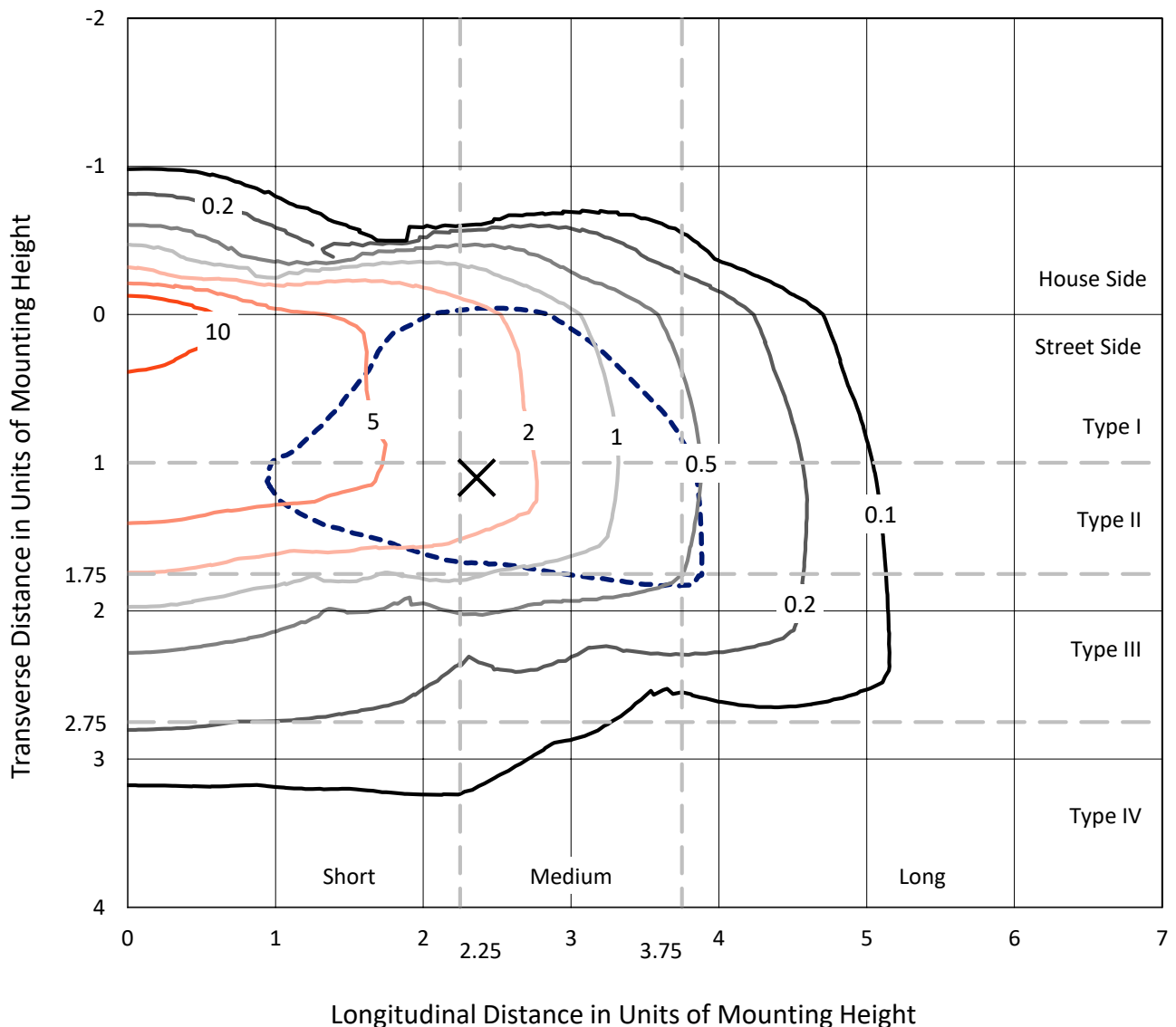
Input Watts (W): 448  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P323181  
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### Iso-Footcandle Lines of Horizontal Illumination

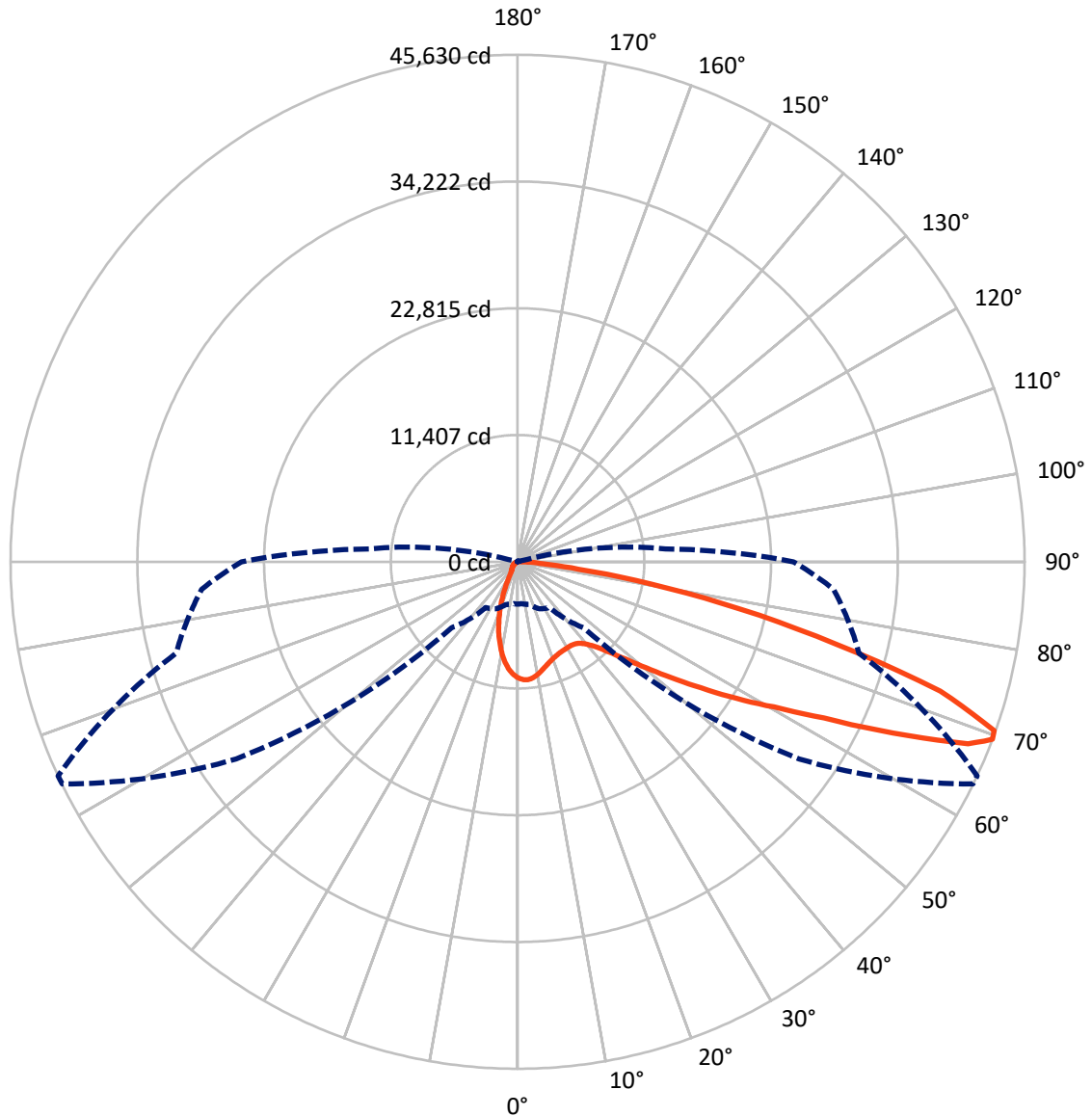
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.7 fc  
 Type III - Medium - N/A

REPORT NUMBER: P323181  
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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	4879.7	0.0	4879.7
	% Fixture	11.8	0.0	11.8
<b>Street Side</b>	Lumens	36517.3	0.0	36517.3
	% Fixture	88.2	0.0	88.2
<b>Total</b>	Lumens	41397.0	0.0	41397.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	874.8	2.1
10°-20°	1914.9	4.6
20°-30°	2652.2	6.4
30°-40°	3698.0	8.9
40°-50°	5747.9	13.9
50°-60°	9227.7	22.3
60°-70°	10438.0	25.2
70°-80°	6130.4	14.8
80°-90°	713.1	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°	41397.0	100.0
0°-180°	41397.0	100.0

**Coefficient of Utilization**

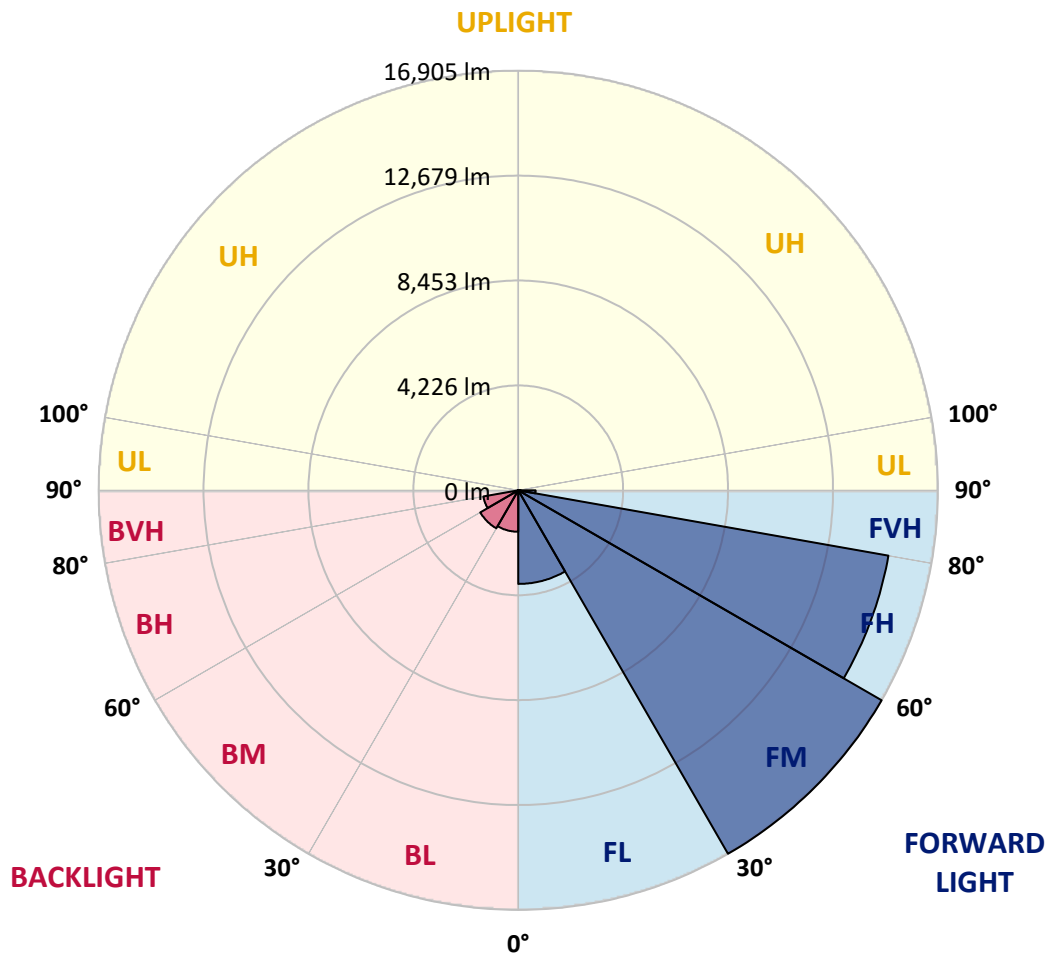


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	3772.2	9.1			
FM (30°-60°)	16905.3	40.8			
FH (60°-80°)	15142.6	36.6			G5
FVH (80°-90°)	697.1	1.7			G4/750
BL (0°-30°)	1669.6	4.0	B3/2500		
BM (30°-60°)	1768.3	4.3	B2/2500		
BH (60°-80°)	1425.8	3.4	B3/2500		G3/2500
BVH (80°-90°)	16.0	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





REPORT NUMBER: P323181

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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	64°	65°	75°	85°
0°	10461.1	10461.1	10461.1	10461.1	10461.1	10461.1	10461.1	10461.1	10461.1	10461.1	10461.1
2.5°	10553.9	10527.7	10548.7	10594.2	10617.0	10617.0	10634.5	10613.5	10620.5	10569.7	10496.1
5°	9893.5	9853.3	9911.1	10038.9	10196.6	10331.5	10531.2	10636.3	10646.8	10648.5	10562.7
7.5°	9182.4	9145.6	9231.4	9382.1	9585.2	9835.7	10184.3	10489.1	10506.6	10671.3	10608.2
10°	8604.3	8578.0	8677.9	8839.0	9077.3	9357.5	9784.9	10208.9	10259.7	10624.0	10601.2
12.5°	8145.4	8124.3	8218.9	8404.6	8648.1	8958.1	9404.8	9897.1	9965.4	10517.1	10566.2
15°	7810.8	7807.3	7886.1	8064.8	8334.5	8623.6	9080.8	9608.0	9686.8	10401.5	10560.9
17.5°	7635.6	7640.9	7698.7	7851.1	8082.3	8369.6	8807.5	9364.5	9450.4	10298.2	10587.2
20°	7618.1	7623.4	7654.9	7740.7	7928.2	8182.1	8585.0	9159.6	9248.9	10221.1	10629.3
22.5°	7772.2	7768.7	7777.5	7768.7	7873.8	8066.5	8437.9	9001.9	9105.3	10170.3	10662.5
25°	8068.3	8063.0	8059.5	7994.7	7924.6	8028.0	8376.6	8912.6	9010.7	10133.5	10681.8
27.5°	8479.9	8476.4	8471.2	8364.3	8154.1	8089.3	8383.6	8879.3	8961.6	10103.7	10678.3
30°	9021.2	9045.7	9038.7	8889.8	8562.3	8276.7	8457.2	8861.8	8933.6	10045.9	10641.5
32.5°	9657.1	9706.1	9744.7	9585.2	9175.4	8648.1	8627.1	8881.1	8933.6	10002.2	10575.0
35°	10317.5	10380.5	10522.4	10466.3	9926.8	9206.9	8919.6	8996.7	9040.5	10026.7	10543.4
37.5°	10967.3	11042.7	11351.0	11513.9	10911.3	9946.1	9375.0	9282.2	9305.0	10175.6	10578.5
40°	11722.3	11836.2	12303.9	12566.6	12086.7	10935.8	10056.5	9772.7	9781.4	10503.1	10741.4
42.5°	12713.8	12831.1	13337.4	13749.0	13410.9	12186.5	10981.3	10522.4	10513.6	11116.2	11125.0
45°	13922.4	14045.1	14568.8	15026.0	14873.6	13668.4	12165.5	11617.2	11606.7	12083.2	11851.9
47.5°	15292.3	15413.1	15880.8	16352.0	16516.7	15399.1	13673.7	13111.4	13086.9	13426.7	12974.8
50°	16467.6	16546.5	16977.4	17611.5	18354.2	17525.7	15549.8	15008.5	14982.2	15211.7	14623.1
52.5°	16895.1	16940.6	17378.5	18266.6	20119.9	20405.4	18014.4	17317.2	17297.9	17397.8	16818.0
55°	16029.7	16112.0	16649.8	17967.1	21076.3	23660.1	21125.4	20176.0	20030.6	19815.1	19112.7
57.5°	13671.9	13803.3	14381.4	16133.1	20629.7	26242.1	25697.3	23409.6	23195.9	21878.6	20978.2
60°	10243.9	10405.0	10885.0	12775.1	18245.6	27161.7	30693.1	27012.8	26531.1	23521.7	22693.1
62.5°	7029.5	7110.1	7435.9	8667.4	13437.2	25655.3	34872.7	31838.7	30959.4	25308.4	24548.2
65°	5368.9	5397.0	5530.1	5954.0	8001.7	20839.9	36535.0	38206.1	37142.8	27445.5	26473.3
67.5°	4326.7	4303.9	4487.8	5093.9	5358.4	12713.8	34595.9	44230.2	43732.7	30302.5	28410.7
69°	3815.2	3783.7	3971.1	4675.3	5032.6	8404.6	30927.8	45598.3	45629.8	31810.7	28543.8
70°	3433.3	3454.3	3640.0	4426.5	4922.2	6596.9	27424.5	45249.7	45498.4	32374.7	27745.0
72.5°	2293.0	2349.0	2722.1	3675.0	4733.1	4992.3	16558.7	38829.7	39786.1	31104.8	23803.7
75°	1292.7	1334.8	1778.0	2771.2	4459.8	4754.1	8746.2	28606.9	29531.7	26010.8	18356.0
77.5°	634.1	656.9	1005.5	1788.5	3729.3	4529.9	4960.8	19431.5	20487.8	16977.4	10382.3
80°	268.0	280.3	502.7	1103.6	2666.1	4323.2	3683.8	11958.8	12090.2	6651.2	2765.9
82.5°	103.3	106.9	212.0	688.4	1693.9	3370.3	3081.2	5670.2	5533.6	1252.5	630.6
85°	12.3	14.0	77.1	413.4	942.4	1734.2	2503.2	2443.6	2261.4	248.7	324.1
87.5°	0.0	0.0	5.3	126.1	280.3	812.8	1301.5	1014.2	914.4	80.6	168.2
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°	10461.1	10461.1	10461.1	10461.1	10461.1	10461.1	10461.1	10461.1	10461.1	10461.1	10461.1
2.5°	10434.8	10417.3	10322.7	10186.1	10056.5	9895.3	9741.1	9648.3	9574.7	9525.7	9583.5
5°	10462.8	10385.8	10098.5	9730.6	9369.8	8963.4	8585.0	8264.5	8138.4	7998.2	8061.3
7.5°	10454.1	10308.7	9791.9	9136.8	8474.7	7789.8	7141.6	6642.4	6383.2	6129.2	6194.0
10°	10410.3	10165.1	9382.1	8411.6	7420.2	6435.7	5516.1	4817.1	4426.5	4072.7	4123.5
12.5°	10314.0	9972.4	8898.6	7581.3	6255.3	4957.3	3880.0	2984.9	2504.9	2293.0	2319.2
15°	10256.1	9784.9	8387.1	6740.5	5011.6	3452.6	2371.8	1764.0	1545.0	1474.9	1483.7
17.5°	10228.1	9604.5	7858.1	5778.8	3739.9	2198.4	1532.7	1352.3	1305.0	1292.7	1296.3
20°	10200.1	9422.3	7313.3	4827.7	2576.7	1478.4	1259.5	1206.9	1189.4	1173.6	1177.1
22.5°	10152.8	9247.2	6728.2	3864.2	1737.7	1199.9	1135.1	1084.3	1047.5	1028.2	1031.7
25°	10095.0	9063.2	6130.9	2878.0	1268.2	1070.3	1009.0	937.2	893.4	858.3	860.1
27.5°	10002.2	8837.3	5514.3	2095.0	1065.0	958.2	875.8	797.0	723.4	683.2	683.2
30°	9872.5	8581.5	4829.4	1499.4	954.7	847.8	748.0	649.9	571.1	534.3	530.8
32.5°	9728.9	8315.3	4137.5	1136.8	867.1	744.5	630.6	527.3	457.2	427.4	425.7
35°	9606.3	8028.0	3447.3	952.9	779.5	644.6	520.3	432.7	376.6	352.1	350.3
37.5°	9527.4	7740.7	2774.7	851.3	700.7	551.8	436.2	357.3	317.1	297.8	296.0
40°	9515.2	7527.0	2159.8	774.2	627.1	469.5	364.4	303.0	266.3	245.2	243.5
42.5°	9674.6	7404.4	1657.1	709.4	551.8	397.6	310.0	259.3	220.7	199.7	197.9
45°	10093.2	7442.9	1275.2	651.6	476.5	336.3	262.8	215.5	180.4	164.7	161.2
47.5°	10857.0	7709.2	1014.2	593.8	404.6	285.5	224.2	178.7	148.9	133.1	131.4
50°	12216.3	8334.5	847.8	530.8	338.1	243.5	185.7	145.4	120.9	106.9	105.1
52.5°	14020.5	9448.6	756.7	469.5	280.3	206.7	152.4	115.6	94.6	84.1	82.3
55°	16010.4	10797.4	697.2	402.9	229.5	171.7	120.9	91.1	73.6	64.8	61.3
57.5°	17953.1	11965.8	641.1	338.1	190.9	140.1	96.3	71.8	57.8	49.0	47.3
60°	19738.0	13039.6	576.3	271.5	155.9	110.4	75.3	56.1	45.5	36.8	36.8
62.5°	21649.1	13869.9	487.0	212.0	127.9	84.1	61.3	50.8	36.8	31.5	29.8
65°	23674.1	14486.5	381.9	164.7	99.8	63.1	50.8	52.6	29.8	22.8	21.0
67.5°	25170.0	14363.9	282.0	129.6	77.1	49.0	49.0	56.1	26.3	17.5	15.8
69°	24840.7	13367.1	236.5	112.1	66.6	42.0	45.5	56.1	24.5	15.8	14.0
70°	23886.0	12263.6	208.5	99.8	59.6	38.5	43.8	54.3	22.8	15.8	14.0
72.5°	19892.2	9236.7	162.9	75.3	47.3	31.5	36.8	47.3	22.8	15.8	12.3
75°	14962.9	5912.0	124.4	54.3	35.0	24.5	28.0	35.0	22.8	14.0	12.3
77.5°	8141.9	2131.8	89.3	36.8	24.5	19.3	19.3	26.3	21.0	10.5	7.0
80°	2093.3	536.0	56.1	24.5	19.3	14.0	12.3	17.5	12.3	1.8	0.0
82.5°	516.7	120.9	29.8	17.5	14.0	5.3	5.3	8.8	5.3	0.0	0.0
85°	283.8	59.6	19.3	12.3	7.0	0.0	0.0	1.8	0.0	0.0	0.0
87.5°	145.4	17.5	5.3	3.5	1.8	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)