

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: P324820

Luminaire Tested: **GAN-SA6D-740-U-AFL-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P324820  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-30)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA6D-740-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 37989 lumens  
Efficiency: N/A  
Efficacy: 99.4 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B2 - U0 - G3

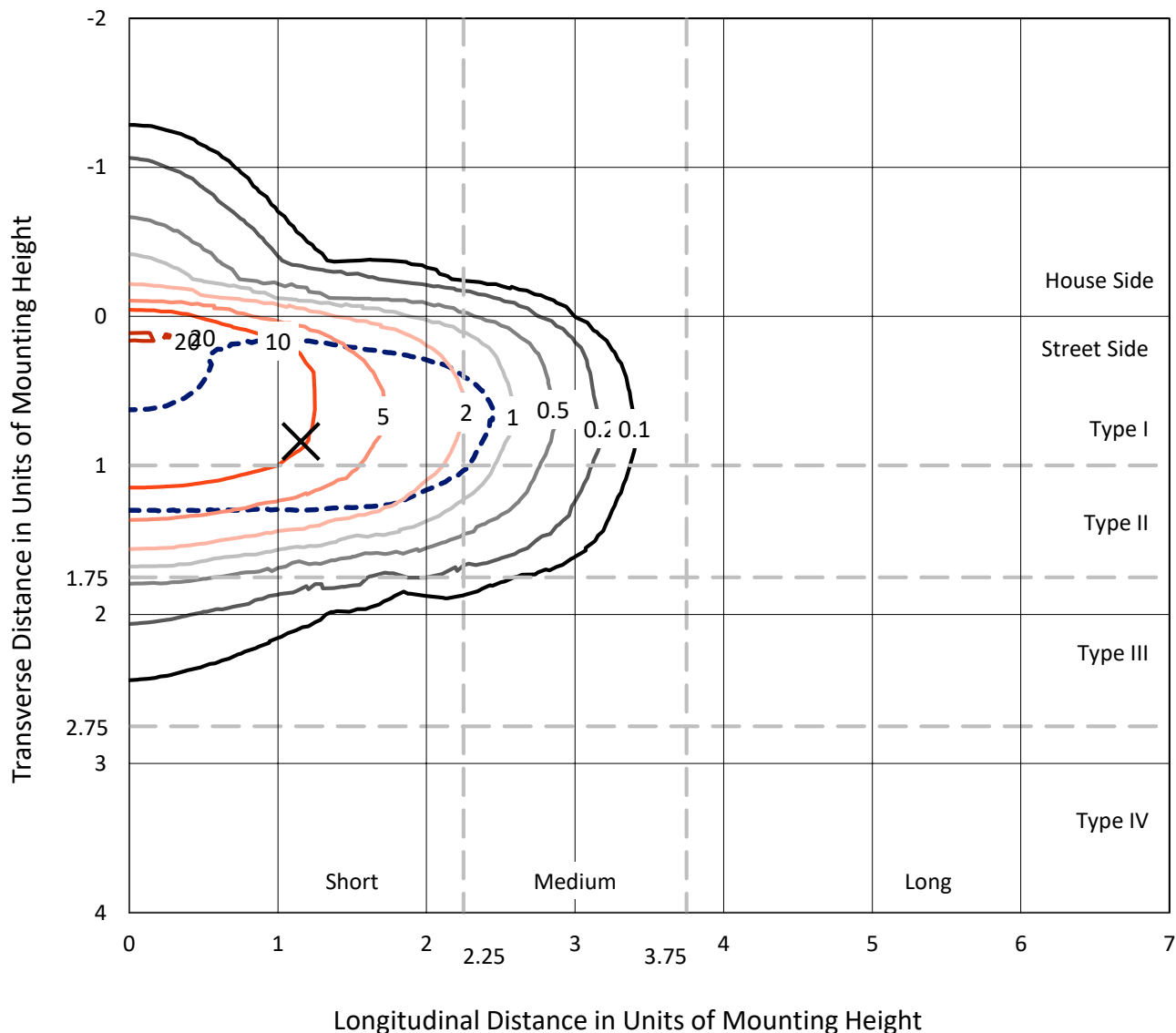
Input Watts (W): 382  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

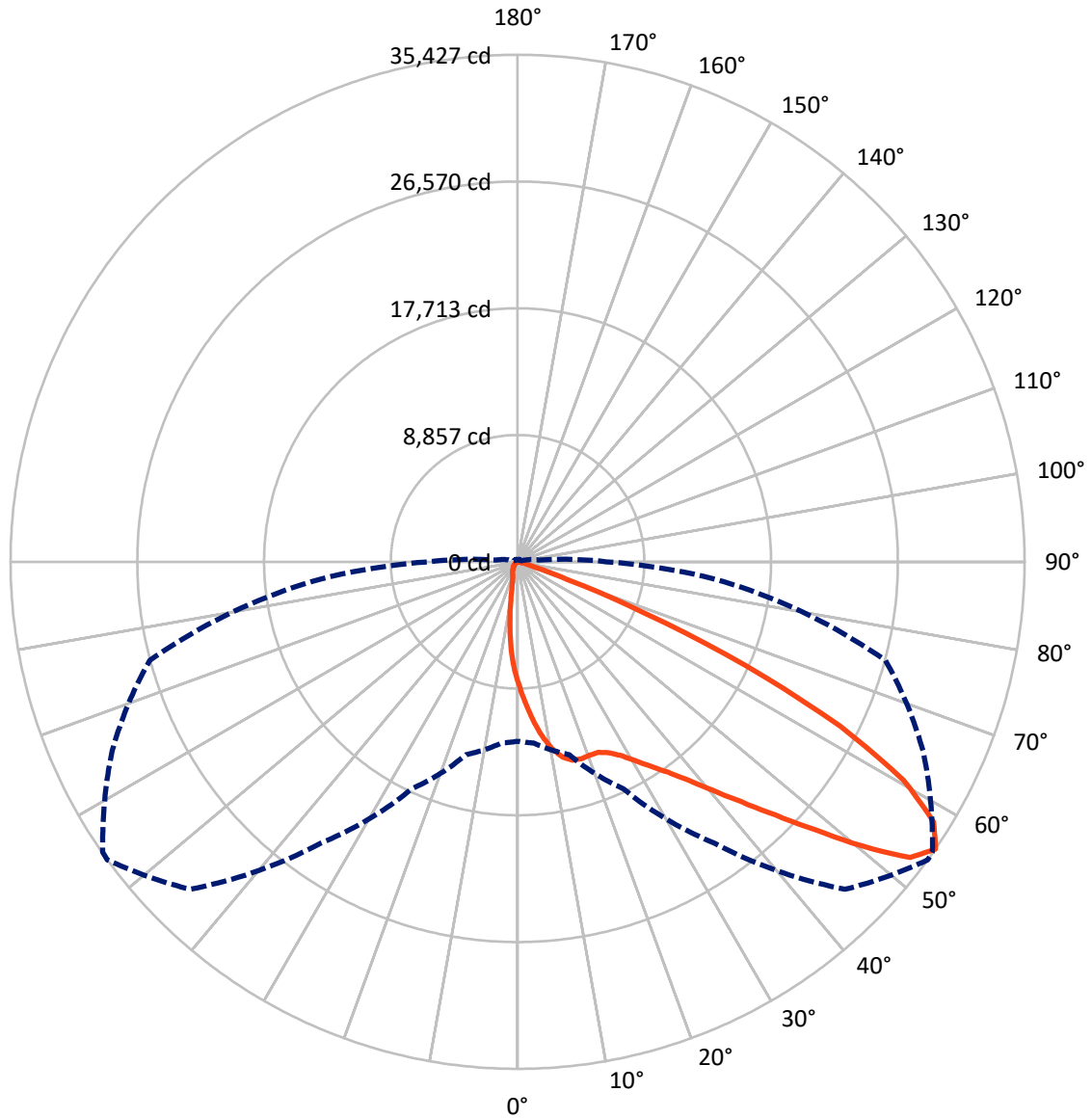
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 20.9 fc  
 Type II - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1895.4	0.0	1895.4
	% Fixture	5.0	0.0	5.0
<b>Street Side</b>	Lumens	36093.6	0.0	36093.6
	% Fixture	95.0	0.0	95.0
<b>Total</b>	Lumens	37989.0	0.0	37989.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	783.5	2.1
10°-20°	2148.8	5.7
20°-30°	3668.6	9.7
30°-40°	5887.5	15.5
40°-50°	9408.3	24.8
50°-60°	10081.2	26.5
60°-70°	5176.0	13.6
70°-80°	784.0	2.1
80°-90°	51.1	0.1
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°	37989.0	100.0
0°-180°	37989.0	100.0

**Coefficient of Utilization**



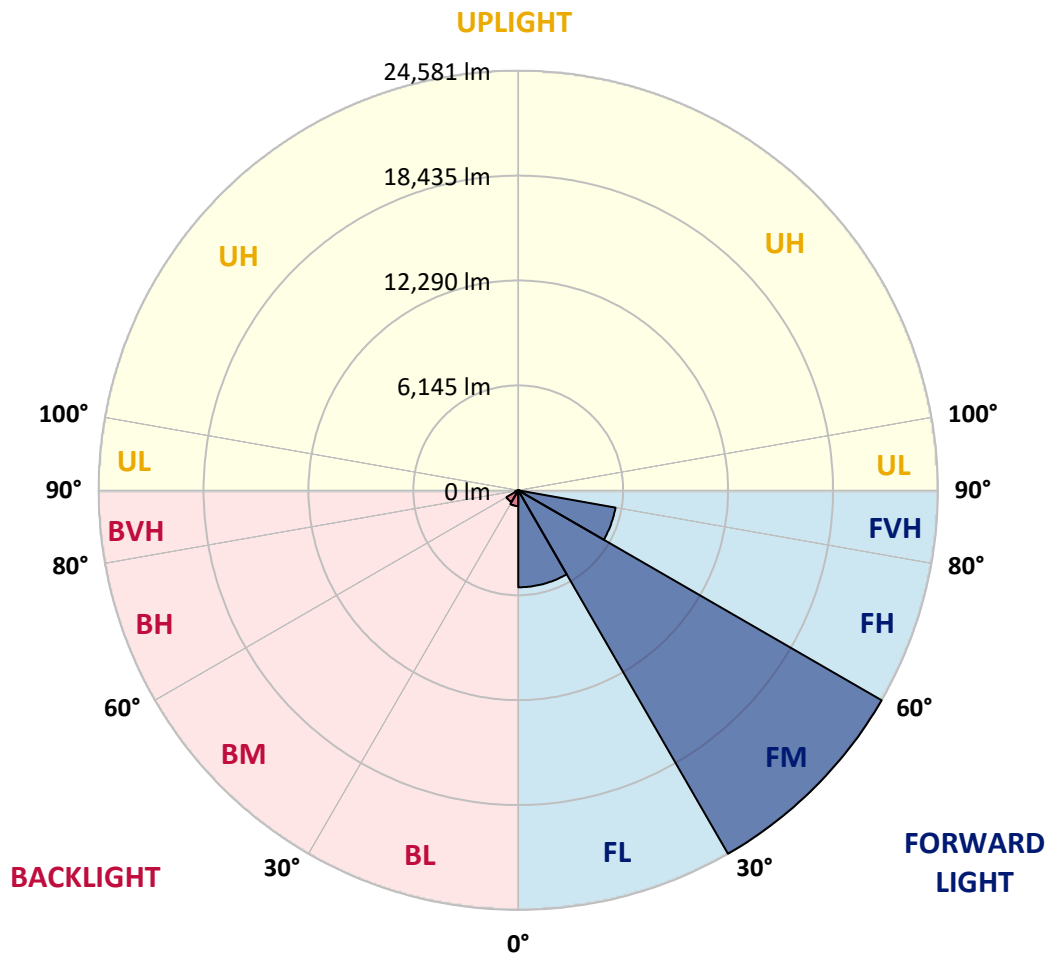
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	5678.7	14.9			
FM (30°-60°)	24580.6	64.7			
FH (60°-80°)	5785.4	15.2			G3/7500
FVH (80°-90°)	49.0	0.1			G1/100
BL (0°-30°)	922.2	2.4	B2/1000		
BM (30°-60°)	796.5	2.1	B1/1000		
BH (60°-80°)	174.7	0.5	B1/500		G1/500
BVH (80°-90°)	2.1	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	8508.0	8508.0	8508.0	8508.0	8508.0	8508.0	8508.0	8508.0	8508.0	8508.0	8508.0
2.5°	10676.8	10517.7	10522.6	10450.4	10186.3	9979.6	9764.7	9713.8	9379.2	9028.1	8690.1
5°	12522.5	12406.0	12378.1	12238.7	11871.2	11482.4	11065.7	10968.9	10314.3	9595.7	8888.6
7.5°	13470.7	13472.4	13449.4	13398.6	13168.9	12791.5	12283.0	12181.3	11290.4	10212.6	9095.3
10°	13195.1	13257.5	13385.4	13554.4	13730.0	13682.4	13300.1	13208.3	12240.3	10865.5	9325.0
12.5°	12552.0	12560.2	12703.0	12980.2	13485.5	14003.9	14010.5	13979.3	13147.6	11548.0	9577.7
15°	12232.1	12263.3	12315.8	12494.6	12973.7	13803.8	14397.7	14442.0	13979.3	12273.1	9846.7
17.5°	12442.1	12486.4	12442.1	12463.4	12740.7	13487.2	14464.9	14578.1	14706.1	12990.1	10101.0
20°	13011.4	13052.4	12973.7	12886.7	12940.8	13395.3	14417.4	14569.9	15275.4	13626.6	10314.3
22.5°	13779.2	13795.6	13675.8	13533.1	13493.7	13707.0	14456.7	14614.2	15731.5	14202.4	10448.8
25°	14624.1	14638.8	14489.5	14325.5	14232.0	14318.9	14779.9	14898.0	16133.4	14752.0	10525.9
27.5°	15544.4	15557.6	15370.5	15168.7	15060.5	15063.7	15313.1	15439.4	16561.6	15378.7	10588.3
30°	16517.3	16510.7	16338.5	16057.9	15920.1	15916.8	16080.9	16208.9	17181.7	16182.6	10673.6
32.5°	17609.9	17596.8	17352.3	17004.5	16848.7	16871.7	17017.7	17091.5	17951.1	17039.0	10826.1
35°	19048.7	19011.0	18641.8	18210.4	17923.3	17915.1	18038.1	18097.2	18932.2	18075.8	11080.4
37.5°	20915.7	20881.2	20380.8	19754.1	19350.6	19199.6	19345.6	19421.1	20331.6	19406.3	11488.9
40°	22756.4	22721.9	22425.0	21850.8	21229.0	20866.4	20981.3	21061.7	22078.8	21020.7	12004.1
42.5°	24026.2	24055.7	24159.1	24206.7	23624.3	22863.0	22915.5	22999.2	23914.6	22746.5	12593.0
45°	24360.9	24424.9	25008.9	26155.7	26373.9	25780.0	25230.4	25276.3	25780.0	24472.4	13182.0
47.5°	23355.2	23473.3	24600.4	26733.1	28580.4	29000.4	27960.3	27899.6	27569.8	25868.6	13600.3
50°	21069.9	21178.2	22638.3	25793.1	29249.8	32074.8	31231.6	31052.8	29139.9	26703.6	13748.0
52.5°	17762.5	17893.7	19079.9	22833.5	27988.2	33446.4	34329.0	34179.7	30291.5	26769.2	13772.6
55°	12543.8	12703.0	13958.0	17500.0	23990.1	32355.4	35426.5	35382.2	31248.0	26595.3	13825.1
57.5°	7049.5	7164.4	8517.9	11218.2	17570.5	28181.8	34279.8	34573.4	31825.5	26293.5	13903.9
60°	3130.2	3161.4	3861.9	5584.5	10286.4	21537.4	30997.0	31492.4	31330.0	25889.9	14036.7
62.5°	1735.7	1709.5	1709.5	2321.4	4470.6	13332.9	25276.3	26095.0	29215.3	25412.5	14043.3
65°	1360.0	1335.4	1264.9	1274.7	1702.9	5917.5	17503.3	18958.5	25199.2	24013.1	13570.8
67.5°	1153.3	1132.0	1061.5	1033.6	1058.2	1952.3	9617.0	11128.0	19120.9	20375.9	11754.7
70°	974.5	959.7	923.6	889.2	826.8	964.7	3679.8	4706.8	11782.6	13554.4	8024.0
72.5°	784.2	777.6	790.8	761.2	685.8	643.1	1258.3	1524.1	5292.5	6048.8	3305.8
75°	675.9	672.6	679.2	649.7	564.4	447.9	639.8	698.9	1492.9	1479.8	669.4
77.5°	439.7	444.6	562.7	549.6	485.6	298.6	331.4	357.6	452.8	339.6	203.4
80°	280.5	277.3	285.5	456.1	436.4	228.0	165.7	173.9	218.2	167.3	98.4
82.5°	170.6	167.3	187.0	213.3	219.8	159.1	101.7	103.4	136.2	108.3	52.5
85°	14.8	19.7	113.2	105.0	75.5	49.2	49.2	52.5	72.2	64.0	29.5
87.5°	0.0	0.0	19.7	29.5	16.4	18.0	18.0	19.7	27.9	27.9	14.8
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°	8508.0	8508.0	8508.0	8508.0	8508.0	8508.0	8508.0	8508.0	8508.0	8508.0	8508.0
2.5°	8514.6	8344.0	7999.4	7668.0	7387.5	7116.8	6808.4	6503.2	6360.5	6303.1	6244.0
5°	8529.3	8178.3	7467.9	6752.6	6011.1	5343.3	4774.1	4190.0	3898.0	3770.0	3711.0
7.5°	8549.0	8014.2	6865.8	5664.9	4470.6	3565.0	2774.2	2265.6	2045.8	2011.3	1926.0
10°	8552.3	7815.7	6166.9	4464.0	2997.3	2149.2	1653.7	1391.2	1294.4	1278.0	1250.1
12.5°	8558.9	7581.1	5390.9	3305.8	1998.2	1437.1	1196.0	1109.0	1082.8	1081.1	1081.1
15°	8578.6	7335.0	4585.4	2382.1	1435.5	1138.6	1050.0	1015.5	1005.7	1010.6	1009.0
17.5°	8578.6	7044.6	3794.6	1775.1	1159.9	1023.7	974.5	951.5	948.3	953.2	954.8
20°	8516.2	6691.9	3069.5	1381.4	1028.6	949.9	905.6	884.3	876.1	879.3	881.0
22.5°	8366.9	6258.8	2478.9	1143.5	941.7	882.6	835.1	802.2	789.1	790.8	790.8
25°	8134.0	5745.3	1939.2	989.3	871.1	810.4	754.7	716.9	708.7	707.1	710.4
27.5°	7835.4	5177.6	1543.8	871.1	787.5	730.1	674.3	643.1	636.5	638.2	639.8
30°	7541.7	4588.7	1217.3	771.1	694.0	639.8	597.2	582.4	582.4	587.3	589.0
32.5°	7272.7	4022.7	963.0	684.1	610.3	561.1	536.5	534.8	543.0	546.3	548.0
35°	7041.3	3499.3	797.3	616.9	544.7	502.0	493.8	500.4	510.2	516.8	518.4
37.5°	6877.3	3031.8	697.2	561.1	493.8	459.4	457.7	470.8	484.0	498.7	502.0
40°	6808.4	2636.4	628.3	511.9	452.8	426.5	421.6	439.7	464.3	485.6	488.9
42.5°	6751.0	2313.2	569.3	464.3	420.0	382.3	380.6	403.6	433.1	454.4	459.4
45°	6701.7	2054.0	515.1	413.4	377.3	328.1	333.0	362.6	385.5	408.5	413.4
47.5°	6600.0	1840.7	456.1	359.3	311.7	280.5	290.4	316.6	334.7	369.1	374.1
50°	6417.9	1666.8	395.4	293.7	254.3	242.8	257.6	275.6	298.6	328.1	331.4
52.5°	6294.9	1535.6	342.9	246.1	210.0	213.3	228.0	234.6	247.7	259.2	255.9
55°	6224.3	1463.4	300.2	213.3	178.8	188.7	191.9	183.7	177.2	165.7	160.8
57.5°	6216.1	1397.8	267.4	185.4	157.5	162.4	150.9	123.0	100.1	87.0	83.7
60°	6203.0	1317.4	241.2	155.9	139.4	132.9	108.3	67.3	47.6	44.3	44.3
62.5°	6060.3	1192.7	221.5	131.2	118.1	100.1	62.3	31.2	26.2	27.9	27.9
65°	5605.8	1018.8	201.8	106.6	93.5	72.2	31.2	18.0	9.8	11.5	11.5
67.5°	4765.9	812.1	180.5	82.0	70.5	45.9	18.0	8.2	0.0	0.0	0.0
70°	3190.9	503.7	152.6	57.4	45.9	27.9	13.1	1.6	0.0	0.0	0.0
72.5°	1223.9	272.3	123.0	34.5	29.5	19.7	8.2	0.0	0.0	0.0	0.0
75°	275.6	178.8	85.3	24.6	21.3	13.1	3.3	0.0	0.0	0.0	0.0
77.5°	105.0	129.6	49.2	16.4	14.8	8.2	0.0	0.0	0.0	0.0	0.0
80°	50.9	77.1	23.0	9.8	8.2	3.3	0.0	0.0	0.0	0.0	0.0
82.5°	26.2	29.5	9.8	4.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.8	14.8	4.9	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.2	4.9	1.6	1.6	0.0	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)