

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: P300703

Luminaire Tested: **GAA-AF-08-LED-U-AFL-7030-800-HSS**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P300703  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24297)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAA-AF-08-LED-U-AFL-7030-800-HSS  
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE  
(8) 70 CRI, 3000K CCT 800mA LIGHTSQUARE WITH 16 LEDS EACH AND Automotive Frontline WITH HOUSESIDE SHIELD OPTICS  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 27723.8 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')  
IES Classification: Type II - Short - Full Cutoff  
BUG Rating: B2 - U0 - G2  
  
Input Watts (W): 334  
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

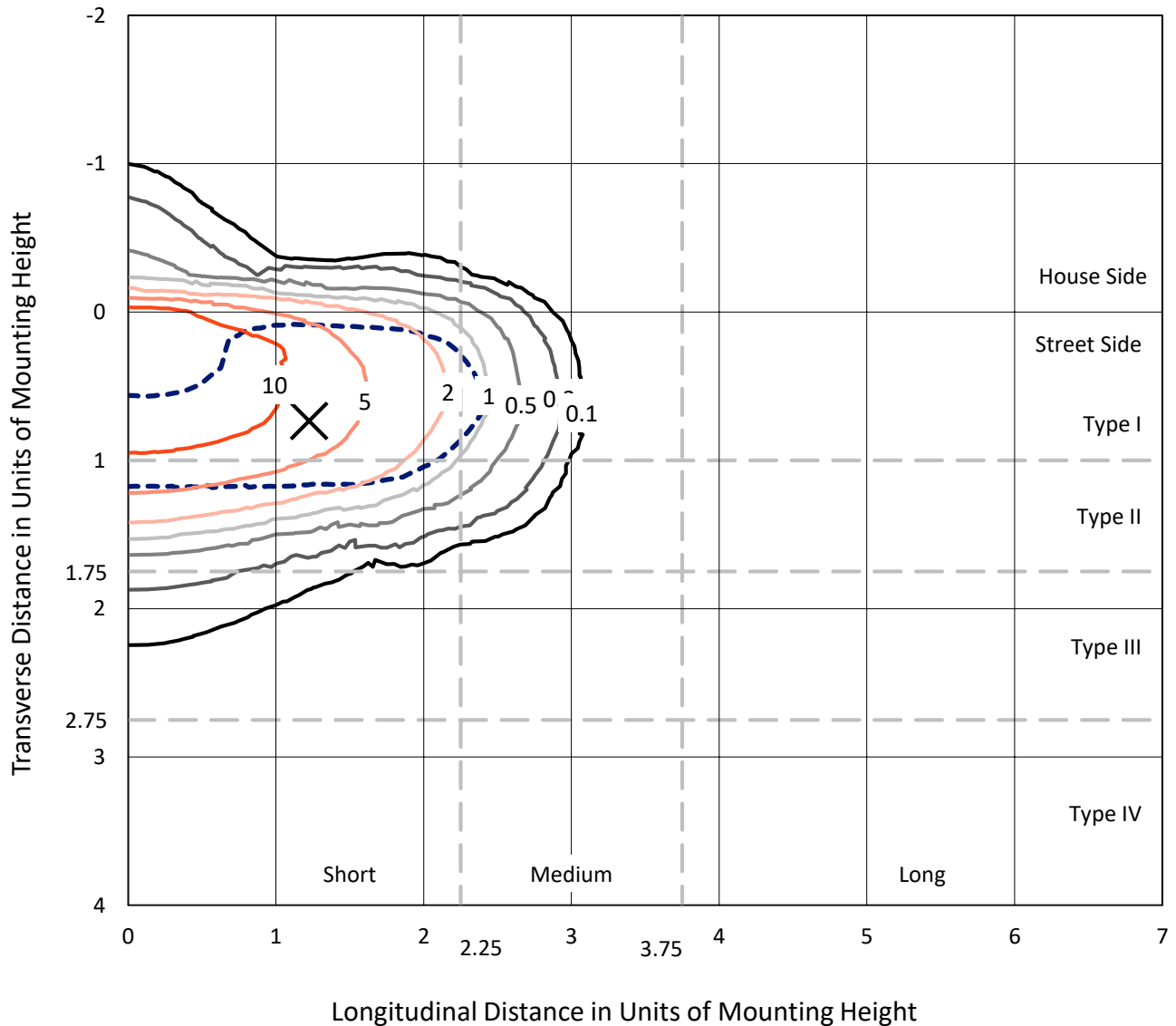


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

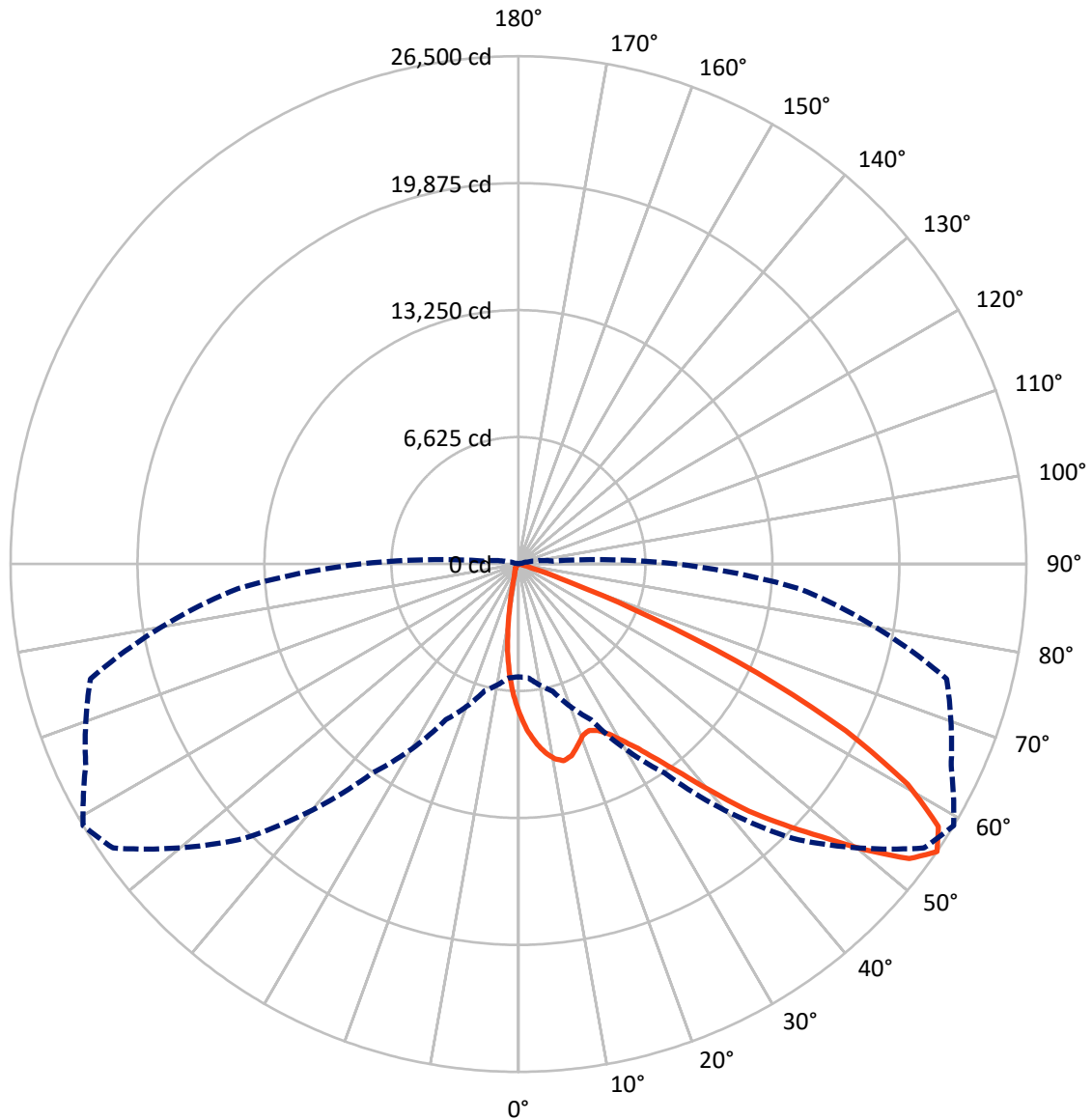


Based on 25 foot mounting height. Maximum calculated value = 15.5 fc  
 Type II - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral      - - - Horizontal Cone Through 55-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1548.5	0.0	1548.5
	% Fixture	5.6	0.0	5.6
<b>Street Side</b>	Lumens	26175.3	0.0	26175.3
	% Fixture	94.4	0.0	94.4
<b>Total</b>	Lumens	27723.8	0.0	27723.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	653.7	2.4
10°-20°	1565.1	5.6
20°-30°	2663.2	9.6
30°-40°	4580.1	16.5
40°-50°	7071.2	25.5
50°-60°	7108.8	25.6
60°-70°	3645.4	13.1
70°-80°	395.1	1.4
80°-90°	41.3	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°	27723.8	100.0
0°-180°	27723.8	100.0

**Coefficient of Utilization**



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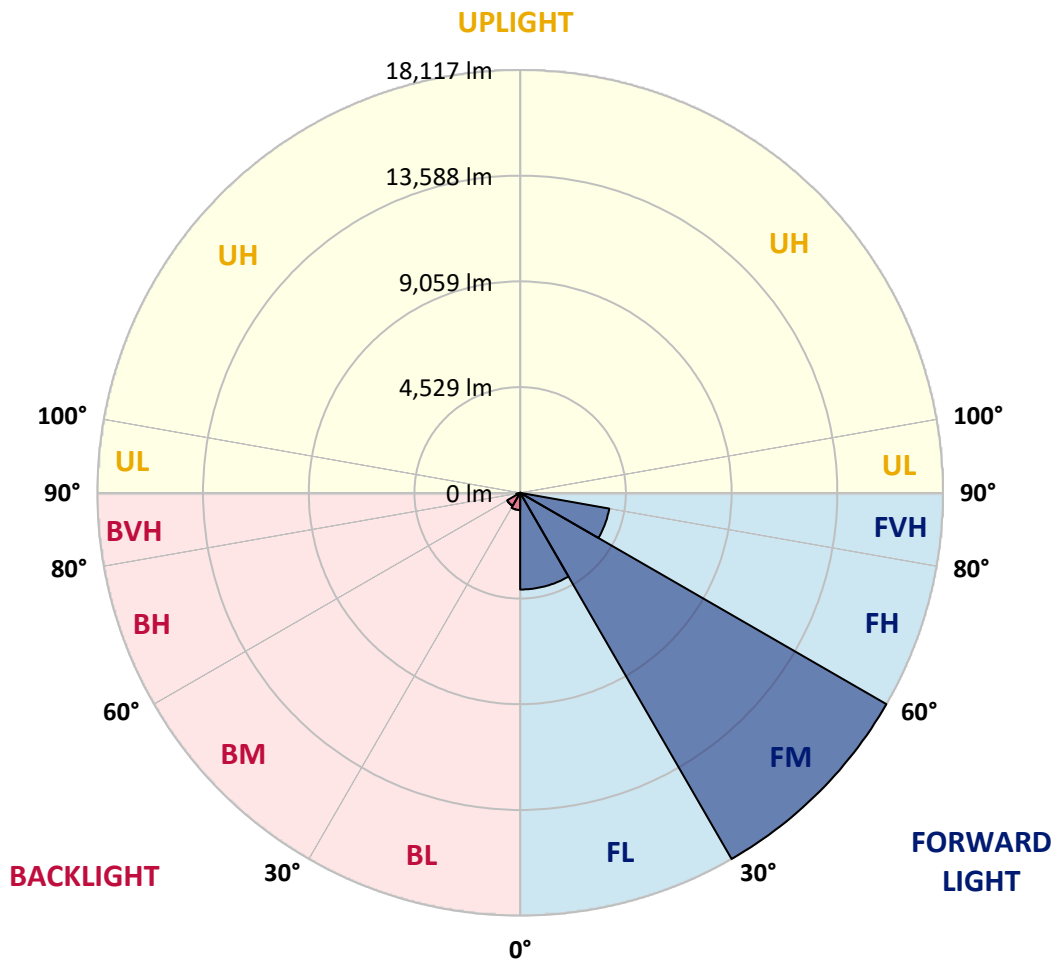
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4142.8	14.9			
FM (30°-60°)	18117.4	65.3			
FH (60°-80°)	3874.6	14.0			G2/5000
FVH (80°-90°)	40.4	0.1			G1/100
BL (0°-30°)	739.1	2.7	B2/1000		
BM (30°-60°)	642.7	2.3	B1/1000		
BH (60°-80°)	165.9	0.6	B1/500		G1/500
BVH (80°-90°)	0.9	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-G2**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	7804.1	7804.1	7804.1	7804.1	7804.1	7804.1	7804.1	7804.1	7804.1	7804.1	7804.1
2.5°	9234.1	9135.9	9106.5	9086.8	8996.9	8884.0	8730.2	8658.2	8510.9	8273.7	7982.5
5°	10079.9	10062.0	9996.5	9960.5	9864.0	9703.6	9458.2	9340.4	9106.5	8707.3	8185.4
7.5°	9710.2	9823.1	9913.1	10063.6	10253.4	10246.8	10040.7	9918.0	9656.2	9129.4	8411.1
10°	8281.9	8373.5	8520.8	8862.7	9559.7	10174.8	10417.0	10328.6	10119.2	9517.1	8628.7
12.5°	8002.1	7992.3	8018.5	8118.3	8483.1	9360.1	10353.2	10531.5	10489.0	9872.2	8834.9
15°	8151.0	8139.5	8136.3	8170.6	8259.0	8628.7	9873.8	10385.9	10714.8	10201.0	9009.9
17.5°	8568.2	8519.1	8492.9	8465.1	8439.0	8530.6	9297.9	9978.5	10749.1	10489.0	9155.6
20°	9283.2	9201.4	9104.8	8947.8	8800.5	8754.7	9055.8	9559.7	10626.4	10708.2	9250.5
22.5°	10181.4	10076.7	9909.8	9623.5	9324.1	9150.6	9175.2	9427.1	10443.2	10947.1	9294.6
25°	11190.9	11056.7	10834.2	10436.6	9996.5	9688.9	9528.6	9616.9	10359.7	11226.8	9345.3
27.5°	12272.3	12123.4	11832.2	11290.7	10791.6	10376.1	10048.9	10037.4	10502.1	11593.3	9427.1
30°	13343.9	13321.0	12941.5	12368.8	11707.9	11202.3	10731.1	10670.6	10899.6	12100.5	9589.1
32.5°	14773.9	14602.1	14137.5	13548.5	12786.0	12179.1	11621.1	11480.4	11509.9	12691.1	9839.4
35°	16576.9	16388.7	15734.3	14921.1	14068.7	13352.1	12735.3	12543.9	12471.9	13658.1	10261.6
37.5°	17741.8	17738.5	17327.8	16500.0	15585.4	14795.2	14124.4	13900.2	13754.6	14826.2	10916.0
40°	17772.8	17849.7	17903.7	17895.5	17244.4	16516.3	15920.8	15644.3	15305.6	16387.1	11761.8
42.5°	16819.0	17017.0	17493.1	18301.3	18687.4	18397.8	17895.5	17624.0	17120.0	18057.5	12792.6
45°	15529.8	15667.2	16500.0	17988.8	19469.5	20263.0	19880.1	19394.2	18730.0	19800.0	13717.0
47.5°	14952.2	14976.8	15515.0	17149.5	19528.4	21791.1	22023.4	21233.2	20192.6	21203.7	14440.1
50°	13226.1	13270.3	14013.1	15695.0	18837.9	22512.6	24176.5	23427.2	21787.8	22285.2	14703.5
52.5°	9968.7	10030.9	10973.3	13304.7	16940.1	22205.0	25717.7	25536.1	23535.2	22813.6	14718.3
55°	5881.7	5963.5	6863.4	8956.0	13324.3	20248.2	25832.2	26499.7	24914.4	23126.1	14695.4
57.5°	2747.0	2804.3	3319.6	4613.8	8286.8	16002.6	24107.8	25838.8	25675.2	23291.4	14857.3
60°	1459.4	1475.8	1600.1	1997.7	3745.0	10147.0	20742.3	23332.3	24981.5	23520.4	15055.3
62.5°	1115.8	1120.7	1114.2	1161.6	1573.9	4504.2	15678.6	19181.5	22188.6	23348.6	14836.1
65°	966.9	975.1	929.3	917.8	1009.5	1606.6	9314.3	13672.8	17435.8	21030.3	13342.3
67.5°	867.1	870.4	814.8	767.3	783.7	868.8	3674.7	7485.1	11541.0	15415.2	9670.9
70°	798.4	795.1	734.6	659.3	638.1	593.9	1168.2	2743.7	5515.3	7817.2	4497.6
72.5°	706.8	708.4	679.0	580.8	530.1	415.6	541.5	800.0	1645.9	2130.2	1053.6
75°	626.6	618.4	582.4	520.3	436.8	273.2	268.3	356.7	507.2	503.9	227.4
77.5°	453.2	445.0	456.5	427.0	335.4	176.7	134.2	171.8	206.1	199.6	63.8
80°	332.1	327.2	294.5	355.0	296.1	121.1	83.4	91.6	106.3	90.0	19.6
82.5°	227.4	225.8	207.8	196.3	168.5	73.6	52.4	57.3	68.7	50.7	9.8
85°	36.0	40.9	150.5	119.4	99.8	32.7	36.0	39.3	45.8	27.8	3.3
87.5°	0.0	0.0	70.4	62.2	19.6	13.1	21.3	22.9	22.9	14.7	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



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**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	7804.1	7804.1	7804.1	7804.1	7804.1	7804.1	7804.1	7804.1	7804.1	7804.1	7804.1
2.5°	7833.6	7670.0	7367.3	7054.8	6765.2	6420.0	6182.8	6004.4	5798.3	5742.7	5863.7
5°	7887.6	7578.4	6927.2	6218.8	5552.9	4815.0	4250.6	3803.9	3399.8	3262.4	3386.7
7.5°	7972.7	7512.9	6451.1	5284.6	4126.2	2974.4	2185.8	1667.2	1336.7	1238.5	1290.9
10°	8057.7	7418.0	5899.7	4178.6	2594.8	1447.9	942.4	752.6	682.2	667.5	675.7
12.5°	8128.1	7290.4	5227.3	2971.1	1387.4	775.5	616.8	585.7	575.9	575.9	579.2
15°	8170.6	7097.4	4430.5	1889.7	798.4	585.7	538.3	528.5	528.5	530.1	533.4
17.5°	8165.7	6851.9	3558.5	1143.6	597.2	518.6	490.8	482.6	481.0	484.3	485.9
20°	8105.2	6531.3	2683.2	754.2	520.3	472.8	445.0	430.3	428.7	431.9	435.2
22.5°	7990.7	6135.3	1919.1	580.8	469.6	428.7	394.3	381.2	381.2	384.5	387.8
25°	7851.6	5651.1	1312.1	492.5	423.7	381.2	348.5	337.0	340.3	348.5	350.1
27.5°	7678.2	5106.2	891.7	422.1	368.1	333.8	309.2	301.0	309.2	320.7	323.9
30°	7529.3	4538.5	636.4	364.8	312.5	288.0	273.2	273.2	284.7	305.9	310.9
32.5°	7414.8	3988.8	490.8	322.3	271.6	250.3	242.1	250.3	268.3	289.6	294.5
35°	7400.0	3535.6	415.6	288.0	242.1	220.9	217.6	232.3	250.3	266.7	270.0
37.5°	7512.9	3116.8	374.7	260.1	216.0	196.3	193.1	211.1	229.1	248.7	253.6
40°	7727.3	2787.9	345.2	234.0	194.7	173.4	166.9	180.0	204.5	230.7	237.2
42.5°	8005.4	2516.3	312.5	207.8	173.4	144.0	135.8	150.5	176.7	204.5	212.7
45°	8270.4	2282.3	276.5	178.3	145.6	111.3	108.0	127.6	140.7	168.5	175.1
47.5°	8416.0	2076.2	245.4	145.6	112.9	90.0	90.0	94.9	108.0	140.7	147.2
50°	8367.0	1911.0	212.7	108.0	78.5	68.7	68.7	67.1	86.7	112.9	117.8
52.5°	8268.8	1816.1	183.2	83.4	54.0	49.1	44.2	49.1	60.5	72.0	73.6
55°	8254.1	1799.7	153.8	67.1	37.6	32.7	24.5	24.5	24.5	22.9	19.6
57.5°	8368.6	1825.9	129.3	54.0	27.8	21.3	13.1	0.0	0.0	0.0	0.0
60°	8486.4	1853.7	111.3	37.6	19.6	11.5	1.6	0.0	0.0	0.0	0.0
62.5°	8290.1	1791.5	93.3	22.9	14.7	4.9	0.0	0.0	0.0	0.0	0.0
65°	7282.2	1524.8	73.6	16.4	9.8	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5179.9	1020.9	49.1	9.8	1.6	0.0	0.0	0.0	0.0	0.0	0.0
70°	2364.1	427.0	31.1	3.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	505.6	132.5	21.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	103.1	96.5	8.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	32.7	152.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	19.6	109.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	3.3	16.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	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)