

Scaled data based on original data using  
LM-46-04 Photometric Testing of Indoor Luminaires Using High Intensity Discharge  
or Incandescent Filament Lamps (Reaffirmed 2012)

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: STREETWORKS

Report Number: 765528\_350MP

Luminaire Tested:

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-46-04  
Report Number: 765528\_350MP  
Test Lab:  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number:  
Description: 400W MH TYPE IV AREA  
Light Source: 350 WATT PULSE-START CLEAR ED-37 HORIZONTAL BURN  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 33000 (1 lamp)  
Luminaire Lumens: 17210.4 lumens  
Efficiency: 52.2%  
Efficacy: 43.4 lumens/watt  
Luminous Opening: Rectangular w/ Sides (W: 1.81' x L: 1.81' x H: 0.83')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B3 - U2 - G3  
  
Input Watts (W): 397  
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

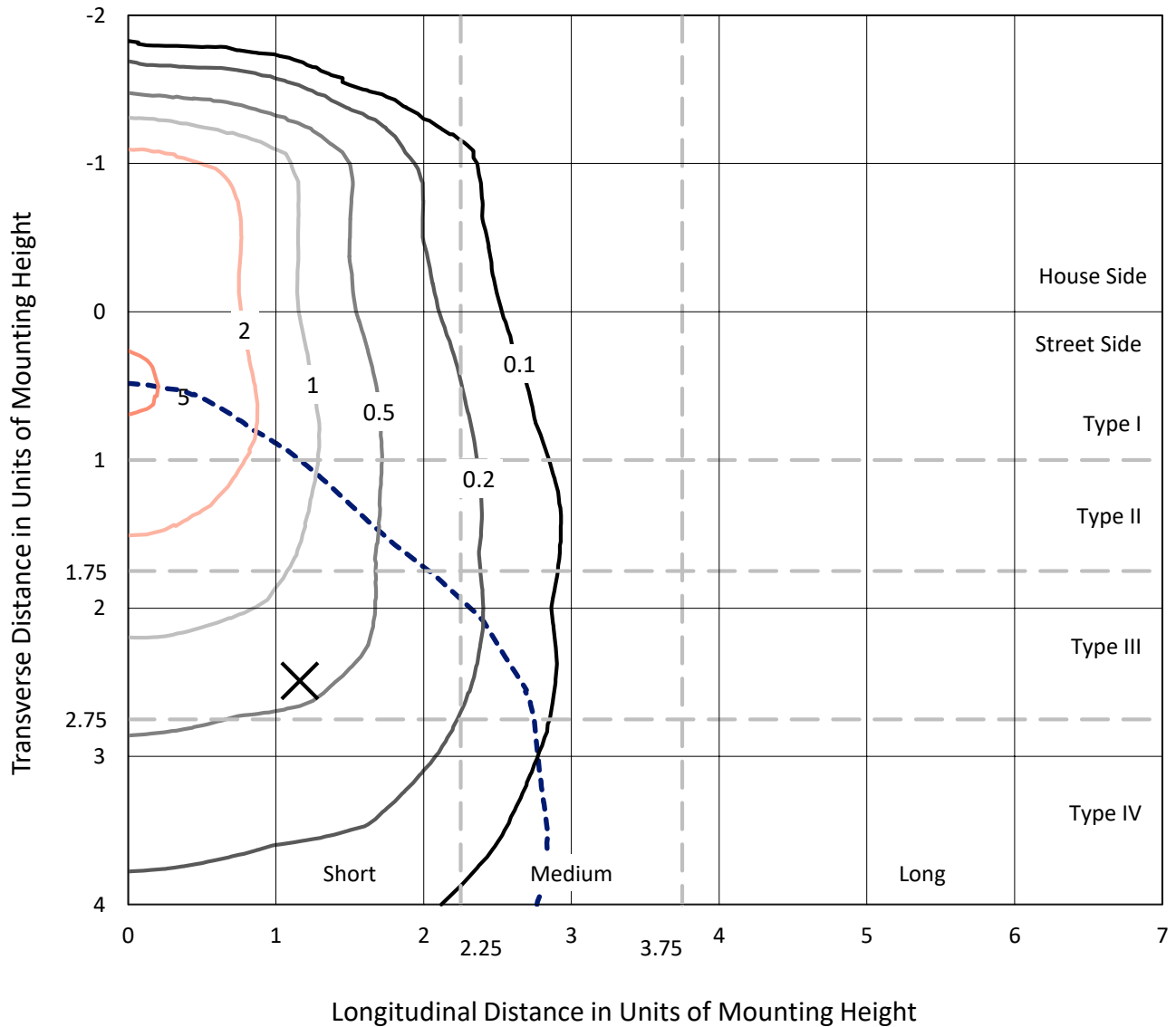


REPORT NUMBER: 765528\_350MP

CATALOG NUMBER:

### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

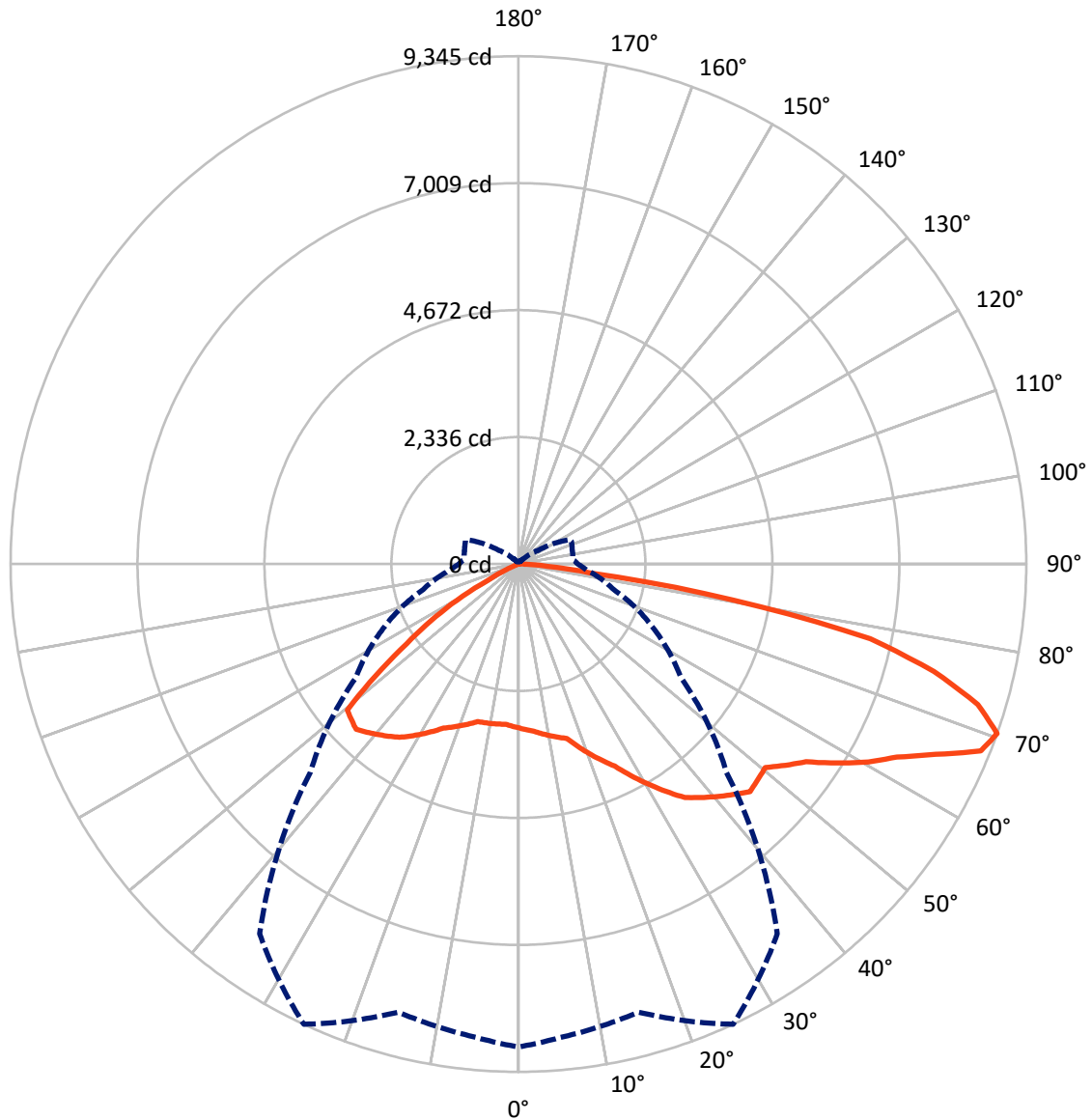


Based on 25 foot mounting height. Maximum calculated value = 5.4 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: 765528\_350MP

CATALOG NUMBER:

### Luminous Intensity Polar Plot



— Vertical Plane Through 25-Deg Lateral      - - - Horizontal Cone Through 70-Deg Vertical

REPORT NUMBER: 765528\_350MP

CATALOG NUMBER:

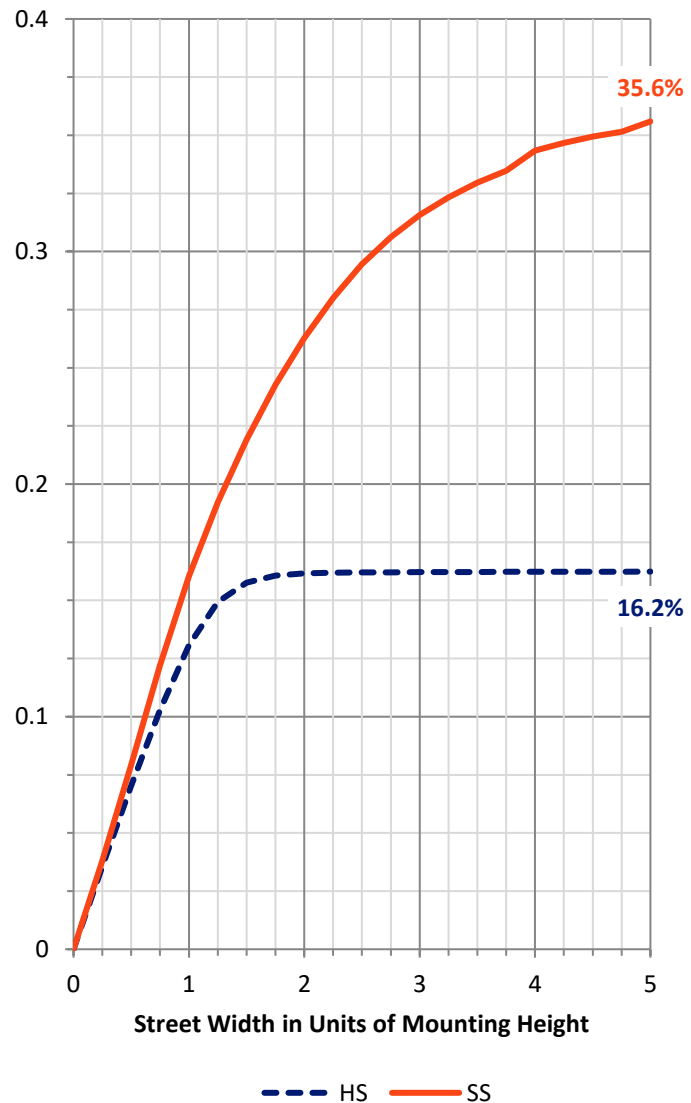
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	5383.9	2.4	5386.4
	% Lamp	16.3	0.0	16.3
<b>Street Side</b>	Lumens	11804.9	19.1	11824.0
	% Lamp	35.8	0.1	35.8
<b>Total</b>	Lumens	17188.9	21.5	17210.4
	% Lamp	52.1	0.1	52.2

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	288.7	1.7	0.9
10°-20°	880.5	5.1	2.7
20°-30°	1550.6	9.0	4.7
30°-40°	2323.0	13.5	7.0
40°-50°	3025.3	17.6	9.2
50°-60°	3315.0	19.3	10.0
60°-70°	3175.9	18.5	9.6
70°-80°	2297.4	13.3	7.0
80°-90°	299.3	1.7	0.9
90°-100°	12.0	0.1	0.0
100°-110°	6.3	0.0	0.0
110°-120°	3.0	0.0	0.0
120°-130°	0.7	0.0	0.0
130°-140°	0.0	0.0	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	17188.9	99.9	52.1
0°-180°	17210.4	100.0	52.2



REPORT NUMBER: 765528\_350MP

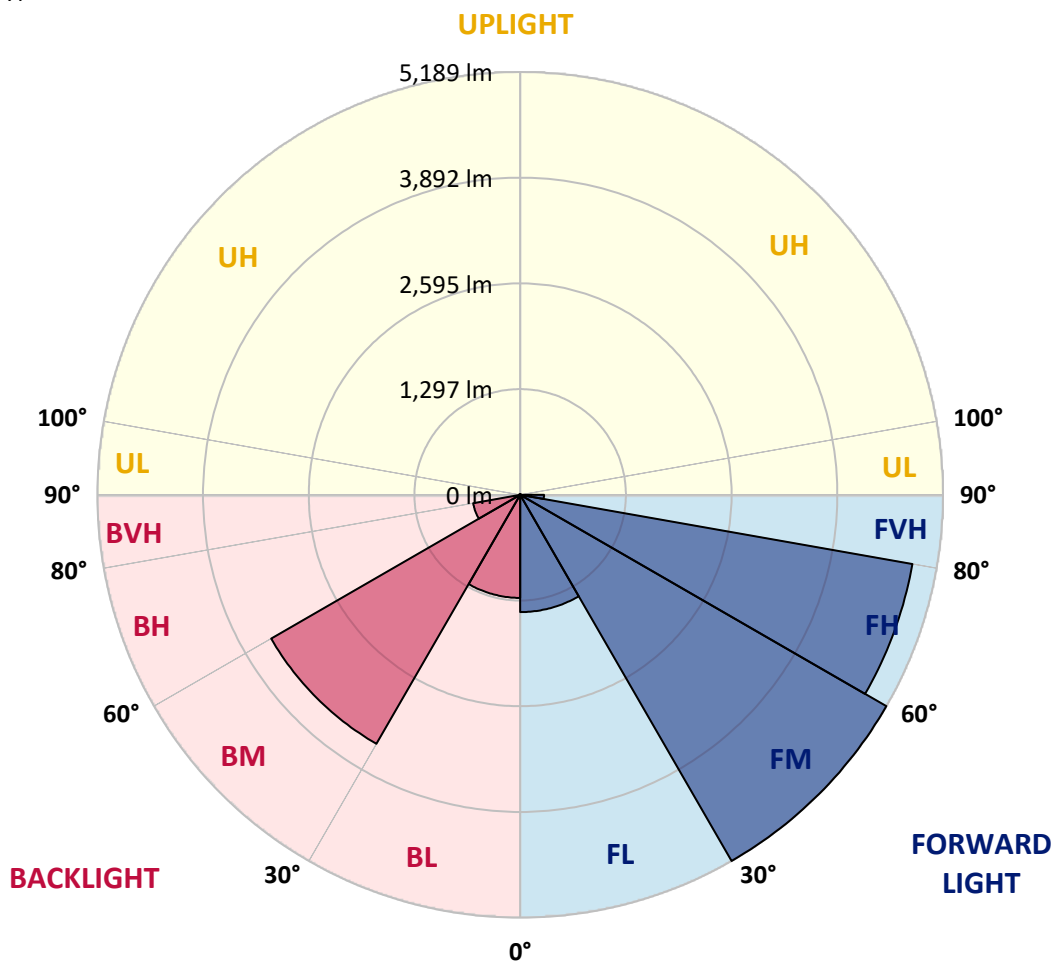
CATALOG NUMBER:

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

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1438.9	4.4			
FM	(30°-60°)	5189.0	15.7			
FH	(60°-80°)	4887.6	14.8			G2/5000
FVH	(80°-90°)	292.5	0.9			G3/500
BL	(0°-30°)	1264.7	3.8	B3/2500		
BM	(30°-60°)	3528.1	10.7	B3/5000		
BH	(60°-80°)	585.7	1.8	B2/1000		G2/1000
BVH	(80°-90°)	6.8	0.0			G0/10
UL	(90°-100°)	12.0	0.0		U2/50	
UH	(100°-180°)	2.4	0.0		U1/10	
Trapped Light		15789.6	47.8			

**BUG Rating: B3-U2-G3**

Type IV Short





REPORT NUMBER: 765528\_350MP

CATALOG NUMBER:

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3019.8	3019.8	3019.8	3019.8	3019.8	3019.8	3019.8	3019.8	3019.8	3019.8	3019.8
5°	3100.9	3098.9	3105.9	3094.9	3079.9	3069.9	3055.9	3044.8	3027.8	3021.8	3006.8
15°	3432.1	3426.1	3395.1	3331.0	3242.0	3161.9	3104.9	3043.8	2967.8	2905.8	2875.7
25°	4533.7	4542.8	4395.7	4119.5	3920.4	3526.1	3198.9	2981.8	2842.7	2735.7	2687.6
35°	5779.5	5741.5	5560.4	5278.2	4831.9	4269.6	3656.2	3057.9	2787.7	2615.6	2539.5
45°	6107.7	6111.7	6119.7	5973.6	5490.3	4669.8	3846.3	3105.9	2623.6	2372.4	2314.4
50°	6334.8	6300.8	6213.8	5884.6	5383.3	4811.9	3992.4	3137.9	2593.6	2289.4	2195.3
55°	7139.3	7157.3	6810.1	6420.9	5713.5	5016.0	4095.5	3142.9	2545.5	2158.3	2011.2
60°	8068.9	8031.9	7894.8	7397.5	6443.9	5143.1	4008.4	3056.9	2464.5	1995.2	1815.1
62.5°	8389.1	8294.0	8121.9	7817.7	6761.1	5176.1	3896.4	2995.8	2409.5	1900.2	1707.0
65°	8684.3	8790.3	8598.2	8439.1	7235.4	5203.2	3781.3	2923.8	2258.4	1733.1	1546.9
67.5°	9109.5	9120.5	8918.4	9175.6	7980.8	5239.2	3722.3	2826.7	2071.3	1517.9	1345.8
70°	8888.4	8747.3	8536.2	9344.7	8303.0	5413.3	3653.2	2711.6	1815.1	1251.8	1092.7
72.5°	8168.0	8068.9	7871.8	8839.4	7638.6	5470.3	3461.1	2498.5	1453.9	883.5	840.5
75°	7569.6	7487.5	7195.4	7895.8	6609.0	4987.0	2693.6	1791.1	965.6	588.4	590.4
77.5°	5656.4	5370.3	5870.6	6621.0	5430.3	3482.1	1570.0	980.6	533.3	383.2	270.2
80°	2427.5	2619.6	3282.0	4005.4	3100.9	1969.2	978.6	647.4	376.2	224.1	180.1
82.5°	1057.6	929.6	1145.7	1320.8	1525.9	806.5	514.3	390.2	207.1	121.1	97.1
85°	517.3	489.3	604.4	543.3	359.2	292.2	203.1	100.1	70.0	44.0	35.0
87.5°	217.1	193.1	241.1	147.1	133.1	125.1	67.0	23.0	16.0	7.0	7.0
90°	55.0	63.0	59.0	44.0	46.0	47.0	26.0	10.0	7.0	4.0	4.0
95°	10.0	10.0	26.0	33.0	29.0	34.0	14.0	10.0	5.0	4.0	4.0
105°	0.0	0.0	0.0	20.0	33.0	4.0	7.0	8.0	5.0	5.0	5.0
115°	0.0	0.0	0.0	3.0	8.0	4.0	5.0	7.0	7.0	7.0	5.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: 765528\_350MP

CATALOG NUMBER:

**CANDELA DISTRIBUTION (continued):**

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3019.8	3019.8	3019.8	3019.8	3019.8	3019.8	3019.8	3019.8	3019.8	3019.8
5°	3018.8	3000.8	2976.8	2955.8	2953.8	2953.8	2957.8	2958.8	2953.8	2954.8
15°	2847.7	2835.7	2850.7	2867.7	2912.8	2951.8	2993.8	3026.8	3047.8	3040.8
25°	2659.6	2666.6	2739.7	2847.7	3011.8	3173.9	3316.0	3404.1	3400.1	3451.1
35°	2495.5	2538.5	2725.7	3021.8	3349.0	3661.2	3868.3	3922.4	3924.4	3918.4
45°	2285.4	2436.5	2795.7	3241.0	3773.3	4169.5	4262.6	4360.6	4505.7	4536.7
50°	2169.3	2315.4	2688.6	3237.0	3906.4	4390.7	4139.5	3796.3	3688.2	3589.2
55°	1974.2	2067.3	2456.5	3198.9	4073.5	3335.0	2521.5	2036.2	1832.1	1939.2
60°	1738.1	1766.1	2205.3	3009.8	2631.6	1691.0	1316.8	830.5	656.4	767.5
62.5°	1617.0	1600.0	2007.2	2554.5	1629.0	1118.7	646.4	399.2	300.2	350.2
65°	1447.9	1419.9	1784.1	1663.0	807.5	458.3	275.2	184.1	142.1	110.1
67.5°	1240.8	1231.7	1603.0	871.5	325.2	164.1	106.1	74.0	65.0	60.0
70°	1003.6	1024.6	1067.6	433.3	143.1	61.0	43.0	48.0	55.0	57.0
72.5°	783.5	767.5	518.3	194.1	64.0	35.0	30.0	35.0	59.0	68.0
75°	477.3	406.2	201.1	93.1	37.0	23.0	22.0	27.0	60.0	68.0
77.5°	260.2	158.1	78.0	39.0	22.0	16.0	14.0	23.0	33.0	39.0
80°	270.2	68.0	43.0	21.0	14.0	9.0	13.0	12.0	17.0	21.0
82.5°	72.0	37.0	22.0	10.0	5.0	0.0	4.0	4.0	4.0	8.0
85°	25.0	12.0	7.0	3.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	4.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	4.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
105°	5.0	5.0	4.0	1.0	0.0	0.0	0.0	0.0	0.0	0.0
115°	7.0	5.0	4.0	3.0	1.0	0.0	0.0	0.0	0.0	0.0
125°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)