

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: P156910

Luminaire Tested: **UTLD-E01-LED-E-U-5MQ**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P156910  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33664)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: UTLD-E01-LED-E-U-5MQ  
Description: TRADITIONAIRE LED DOWNLIGHT LUMINAIRE  
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE MEDIUM  
Light Source: (21) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2815 lumens  
Efficiency: N/A  
Efficacy: 114.0 lumens/watt  
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B2 - U0 - G1

Input Watts (W): 24.7  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): 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

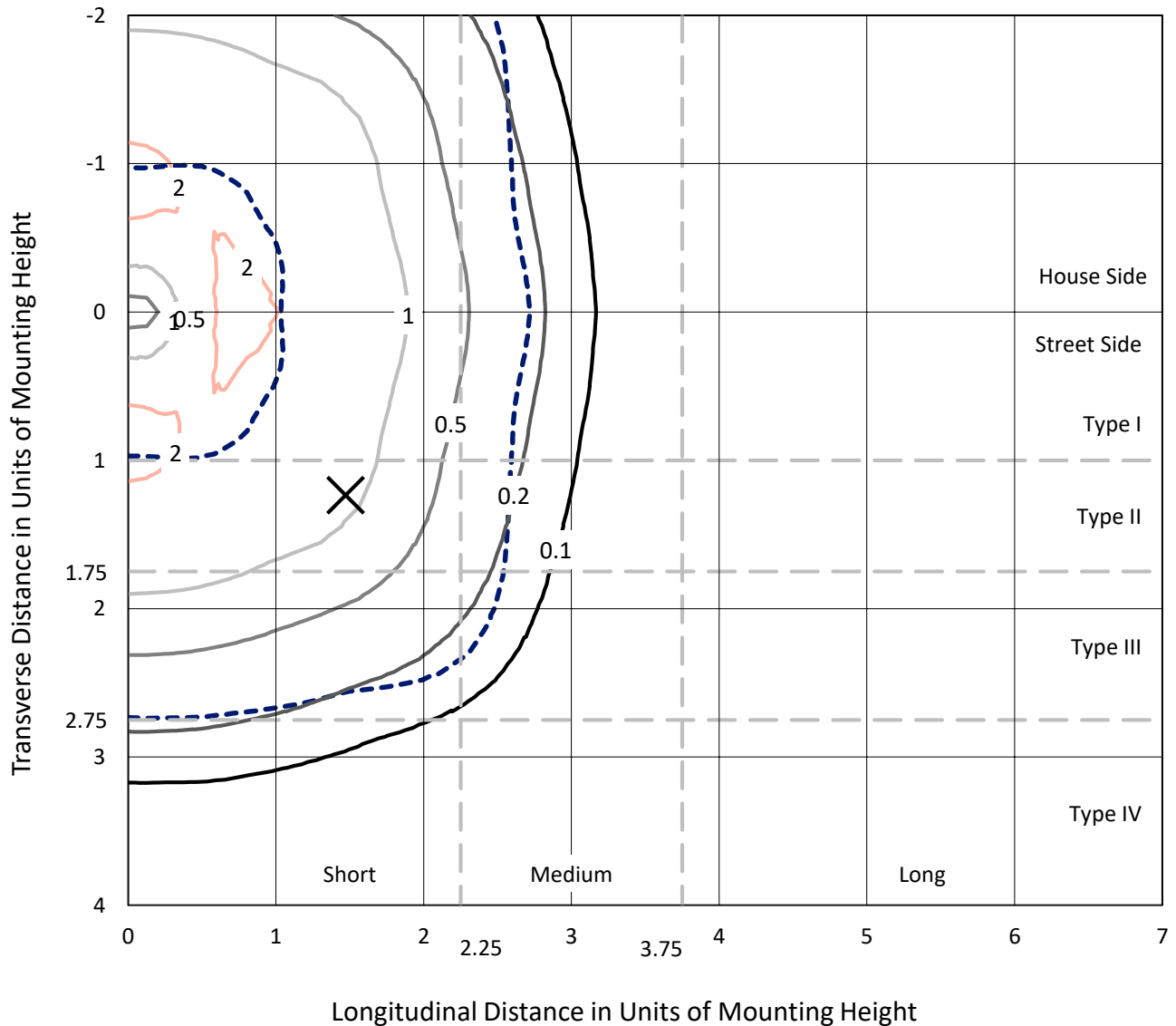


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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

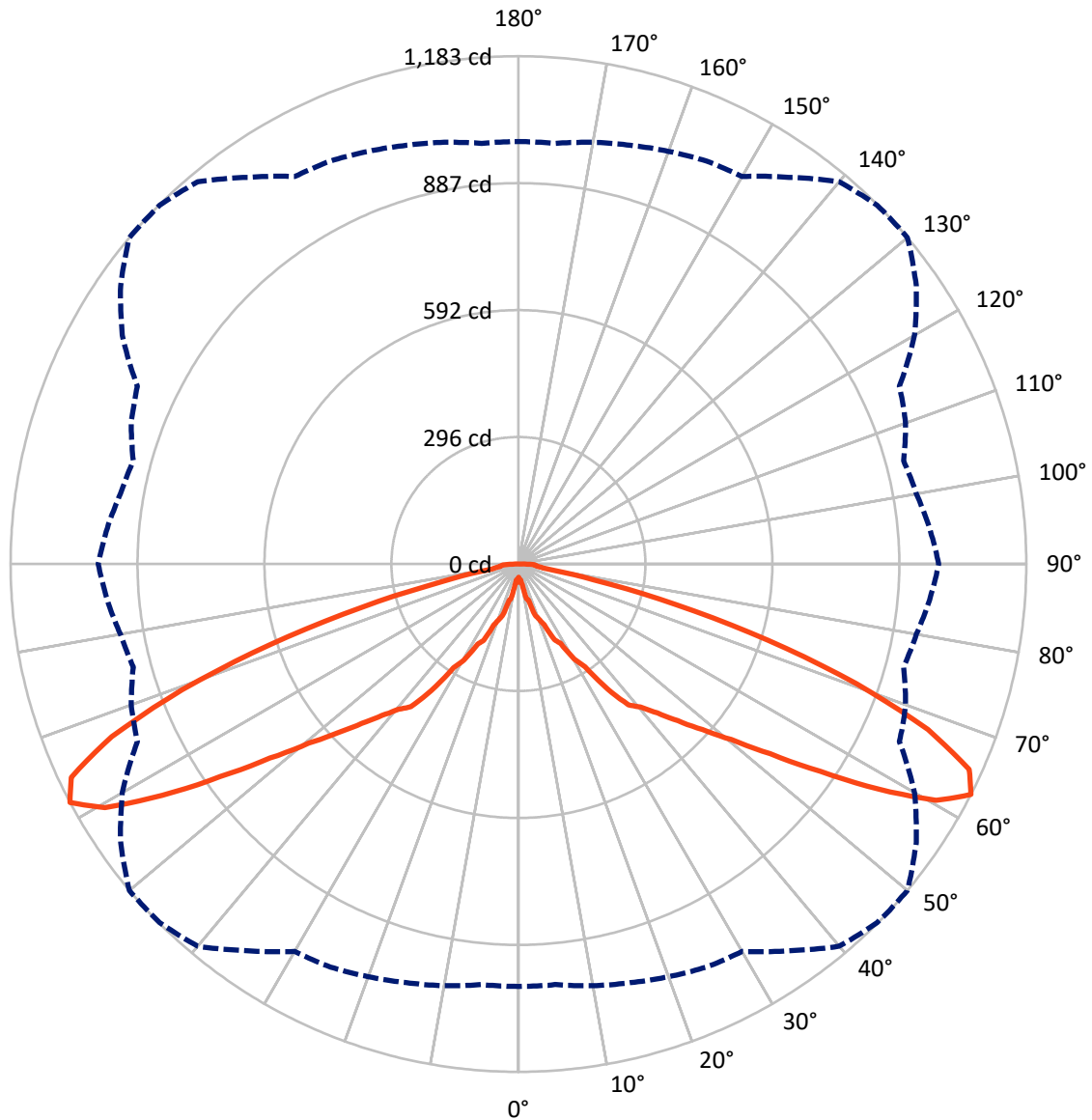


Based on 10 foot mounting height. Maximum calculated value = 2.3 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 50-Deg Lateral    - - - Horizontal Cone Through 62.5-Deg Vertical

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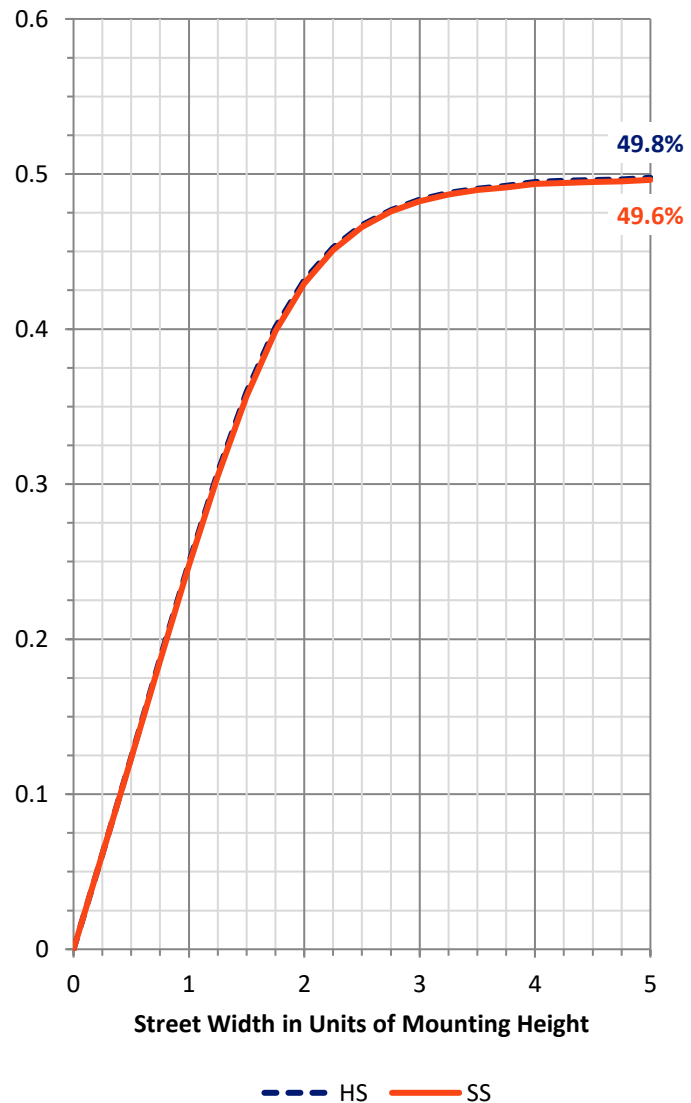
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1407.5	0.0	1407.5
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1407.5	0.0	1407.5
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	2815.0	0.0	2815.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	4.3	0.2
10°-20°	27.1	1.0
20°-30°	90.2	3.2
30°-40°	231.0	8.2
40°-50°	428.0	15.2
50°-60°	777.7	27.6
60°-70°	916.7	32.6
70°-80°	300.7	10.7
80°-90°	39.4	1.4
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°	2815.0	100.0
0°-180°	2815.0	100.0

**Coefficient of Utilization**



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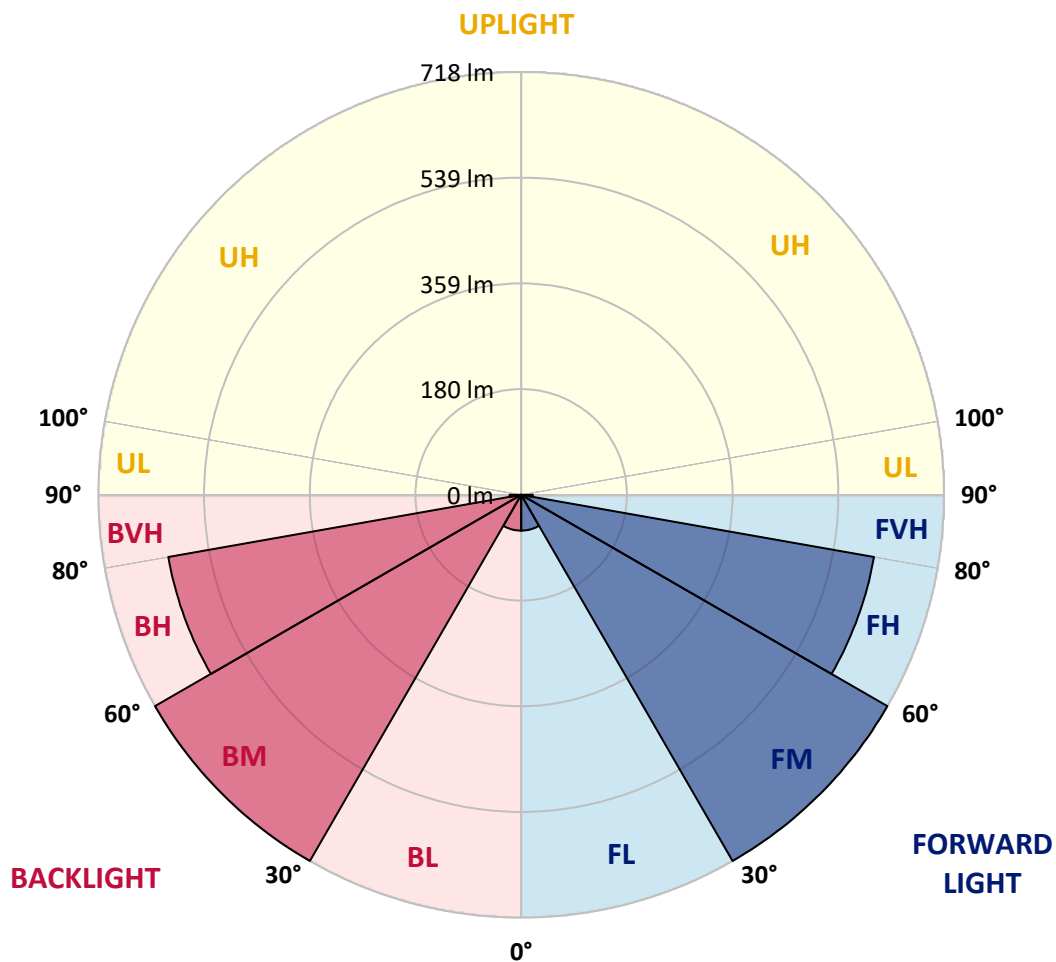
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	60.8	2.2			
FM	(30°-60°)	718.3	25.5			
FH	(60°-80°)	608.7	21.6			G0/660
FVH	(80°-90°)	19.7	0.7			G1/100
BL	(0°-30°)	60.8	2.2	B0/110		
BM	(30°-60°)	718.3	25.5	B1/1000		
BH	(60°-80°)	608.7	21.6	B2/1000		G0/660
BVH	(80°-90°)	19.7	0.7			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
2.5°	48.8	48.8	48.8	49.0	49.5	49.1	48.2	47.9	42.9	42.4	37.4
5°	35.8	35.9	36.1	36.0	36.1	37.1	36.5	37.1	36.2	37.5	43.5
7.5°	58.0	58.8	58.4	57.9	57.4	54.8	48.4	42.9	37.9	37.4	37.0
10°	62.2	62.5	62.2	62.0	61.9	61.9	61.6	59.8	59.1	57.8	49.4
12.5°	88.8	89.4	88.9	88.2	88.0	77.4	71.8	65.2	63.2	80.6	82.5
15°	94.0	95.0	94.0	93.4	93.1	91.6	90.4	104.4	103.0	87.9	87.4
17.5°	122.5	122.6	122.0	121.6	118.4	112.5	115.4	112.6	110.5	110.0	124.9
20°	140.2	138.0	133.8	127.4	123.8	138.0	139.6	135.5	125.8	132.1	137.2
22.5°	160.0	160.2	159.4	155.2	154.8	163.2	149.8	152.8	158.8	149.9	153.5
25°	197.5	197.4	194.4	180.4	177.6	174.5	174.1	178.4	169.2	182.4	195.5
27.5°	215.5	213.0	209.4	203.5	212.6	207.6	203.9	188.1	214.5	202.1	209.6
30°	263.8	262.2	255.4	251.6	249.2	232.4	226.1	240.6	234.2	236.8	257.0
32.5°	343.0	343.2	332.0	312.4	286.0	284.5	275.6	267.5	276.0	272.2	285.2
35°	415.0	405.5	381.9	374.9	361.0	354.8	345.4	332.4	338.5	336.6	358.2
37.5°	447.2	446.8	433.8	424.6	418.6	396.6	389.8	398.0	392.8	387.6	416.5
40°	516.2	515.1	501.0	487.4	473.4	440.6	430.0	423.0	417.5	418.6	438.0
42.5°	558.5	559.8	544.6	532.5	510.8	486.0	468.8	465.1	455.8	455.5	474.6
45°	606.0	605.5	594.4	578.1	555.9	536.2	512.8	510.5	502.2	501.9	520.6
47.5°	660.5	658.8	649.5	634.9	614.6	587.5	568.8	564.1	558.0	554.5	576.8
50°	734.8	734.4	723.0	705.0	688.6	662.1	639.1	627.9	625.4	620.9	642.8
52.5°	832.8	830.9	825.4	801.8	787.0	744.8	720.9	711.1	715.1	710.9	734.4
55°	939.0	934.2	931.9	910.5	899.2	858.6	830.9	826.6	831.1	834.9	852.9
57.5°	1023.5	1020.8	1024.4	1010.8	994.9	969.1	942.0	954.4	968.1	973.6	990.1
60°	1041.5	1043.2	1051.1	1052.1	1049.6	1044.5	1027.1	1056.5	1095.6	1108.8	1118.1
62.5°	984.2	983.5	997.6	1009.8	1023.1	1036.1	1042.2	1099.6	1162.4	1181.8	1183.1
65°	883.0	883.9	901.1	913.6	930.1	951.2	987.4	1049.5	1135.1	1159.2	1154.2
67.5°	748.2	754.4	768.1	789.0	803.6	828.1	871.0	932.2	1013.6	1036.0	1029.2
70°	583.5	590.6	605.1	618.2	640.0	671.0	696.2	763.4	828.2	846.8	836.2
72.5°	367.8	374.8	399.1	414.2	434.6	462.5	487.9	548.6	608.4	626.9	607.8
75°	130.2	136.4	159.0	180.0	202.0	234.5	268.9	322.0	383.8	406.8	379.6
77.5°	51.0	52.1	56.2	59.0	67.6	81.4	101.2	131.1	180.2	201.9	179.8
80°	44.8	46.9	49.4	51.0	51.1	50.2	49.4	51.9	62.8	70.1	61.1
82.5°	38.8	41.1	45.9	48.9	49.2	48.0	46.6	44.9	43.4	41.5	44.6
85°	28.5	34.5	41.1	45.1	45.9	44.9	44.4	42.5	39.4	35.6	40.4
87.5°	11.5	17.6	32.2	38.2	38.0	34.8	35.8	36.4	32.2	23.6	34.2
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):**

	55°	60°	65°	70°	75°	80°	85°	90°
0°	30.5	30.5	30.5	30.5	30.5	30.5	30.5	30.5
2.5°	37.8	34.1	32.8	31.1	30.8	30.4	30.4	30.2
5°	46.9	48.9	47.6	41.0	33.2	32.6	31.1	31.0
7.5°	37.1	37.0	42.5	47.0	43.8	32.9	32.5	32.2
10°	41.4	53.1	54.0	55.8	69.1	58.4	49.5	48.2
12.5°	80.6	66.4	58.0	59.8	63.8	69.1	52.9	50.8
15°	85.2	85.4	93.4	83.9	82.4	92.1	75.4	78.0
17.5°	108.8	107.9	107.5	90.6	88.8	88.2	90.5	85.0
20°	125.0	119.0	142.8	148.9	136.0	131.5	134.0	132.8
22.5°	167.5	171.6	159.6	158.6	155.9	171.4	175.8	169.2
25°	176.1	194.8	213.6	214.0	205.6	199.2	209.1	200.8
27.5°	231.5	227.0	233.4	228.6	252.2	246.0	245.5	237.0
30°	251.1	260.5	274.1	272.6	280.8	276.9	272.8	287.0
32.5°	298.0	298.4	310.2	339.8	351.5	360.8	353.5	357.5
35°	364.2	383.9	389.6	387.8	390.4	402.4	393.1	393.0
37.5°	418.5	418.4	415.2	410.8	417.0	426.0	427.8	419.8
40°	444.5	444.2	446.0	448.9	458.6	464.2	474.0	460.8
42.5°	480.9	479.0	485.8	493.0	501.4	506.9	521.6	507.2
45°	528.2	527.2	532.9	538.4	545.4	548.1	567.9	568.5
47.5°	582.5	585.1	578.0	584.0	591.5	597.6	622.0	625.5
50°	647.9	654.1	637.1	642.2	651.8	665.5	684.5	698.0
52.5°	739.5	735.4	722.4	718.5	737.5	762.0	780.8	802.8
55°	858.1	843.8	829.2	822.1	843.1	875.9	895.0	923.5
57.5°	987.4	962.6	924.2	929.8	940.1	967.2	977.5	1022.2
60°	1090.9	1049.8	990.0	976.1	972.4	986.9	1015.0	1037.5
62.5°	1131.2	1065.6	979.4	959.9	928.9	941.5	961.4	979.0
65°	1086.4	1001.8	915.6	880.8	845.1	857.2	867.8	878.8
67.5°	964.6	882.0	802.5	755.0	722.9	724.0	738.1	737.2
70°	785.5	705.6	638.8	599.6	567.5	561.8	569.8	576.5
72.5°	552.1	487.4	438.2	400.9	366.2	363.2	354.4	363.2
75°	317.5	255.5	216.0	176.9	141.5	134.2	122.0	124.0
77.5°	130.2	91.1	70.5	57.0	52.5	51.2	52.0	51.5
80°	52.8	48.4	47.4	47.2	48.1	48.8	49.0	46.8
82.5°	47.1	47.0	46.2	45.9	46.1	46.4	43.4	41.5
85°	44.1	44.0	43.1	42.5	42.6	41.2	36.9	32.8
87.5°	39.2	37.0	35.4	37.5	38.2	35.1	23.5	19.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)