

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: McGRAW-EDISON

Report Number: P197725

Luminaire Tested: **TT-C1-LED-E1-5WQ-PM-LWR-LW-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197725  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115483)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TT-C1-LED-E1-5WQ-PM-LWR-LW-8030  
Description: TOPTIER LED AREA/SITE LUMINAIRE  
WIDE DISTRIBUTION WITH LumaWatt WIRELESS SENSOR  
Light Source: (168) 3000K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2832.6 lumens  
Efficiency: N/A  
Efficacy: 101.2 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type V - Short - Semi-Cutoff  
BUG Rating: B2 - U0 - G1

Input Watts (W): 28  
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: 25 FT

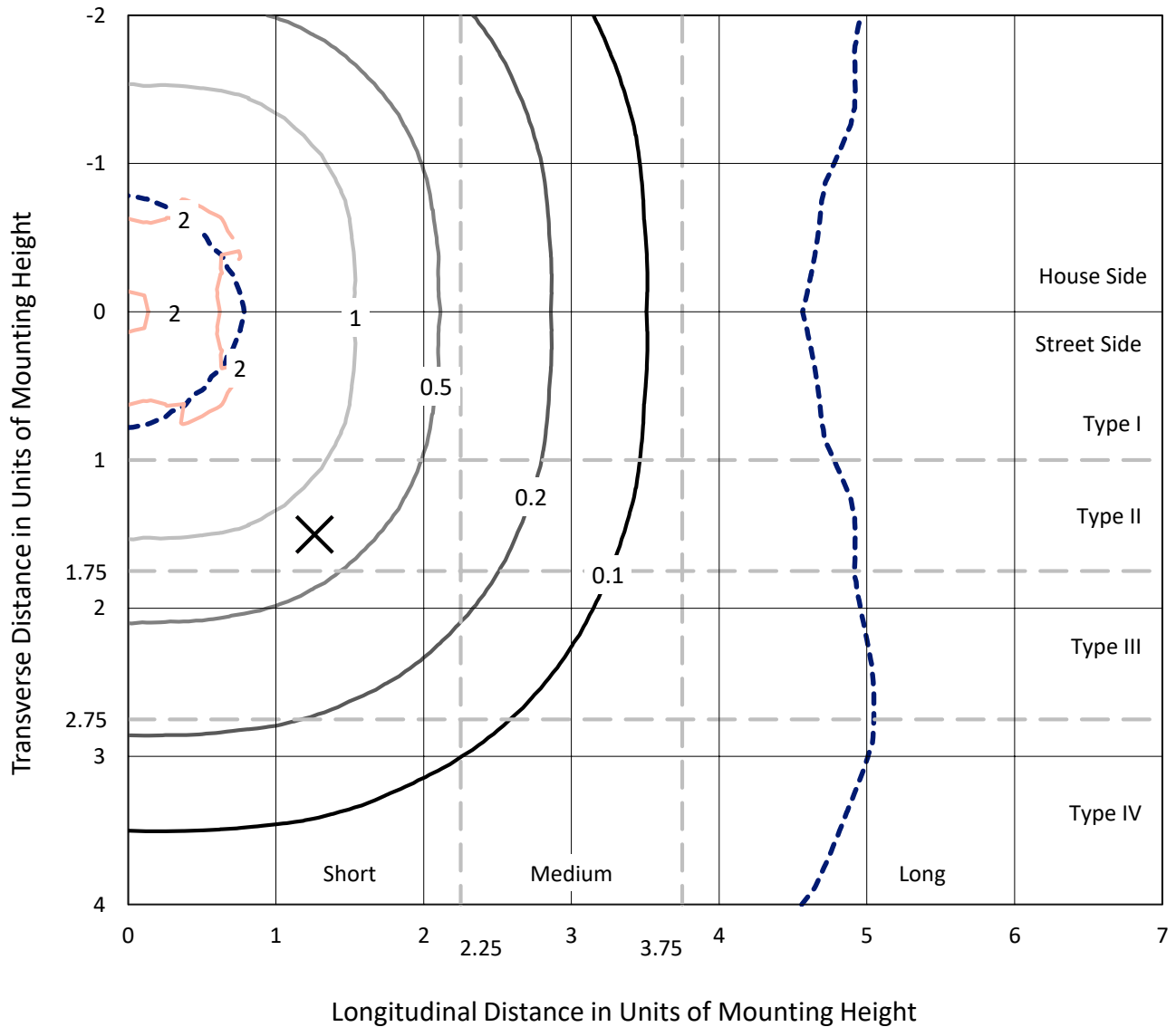


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### Iso-Footcandle Lines of Horizontal Illumination

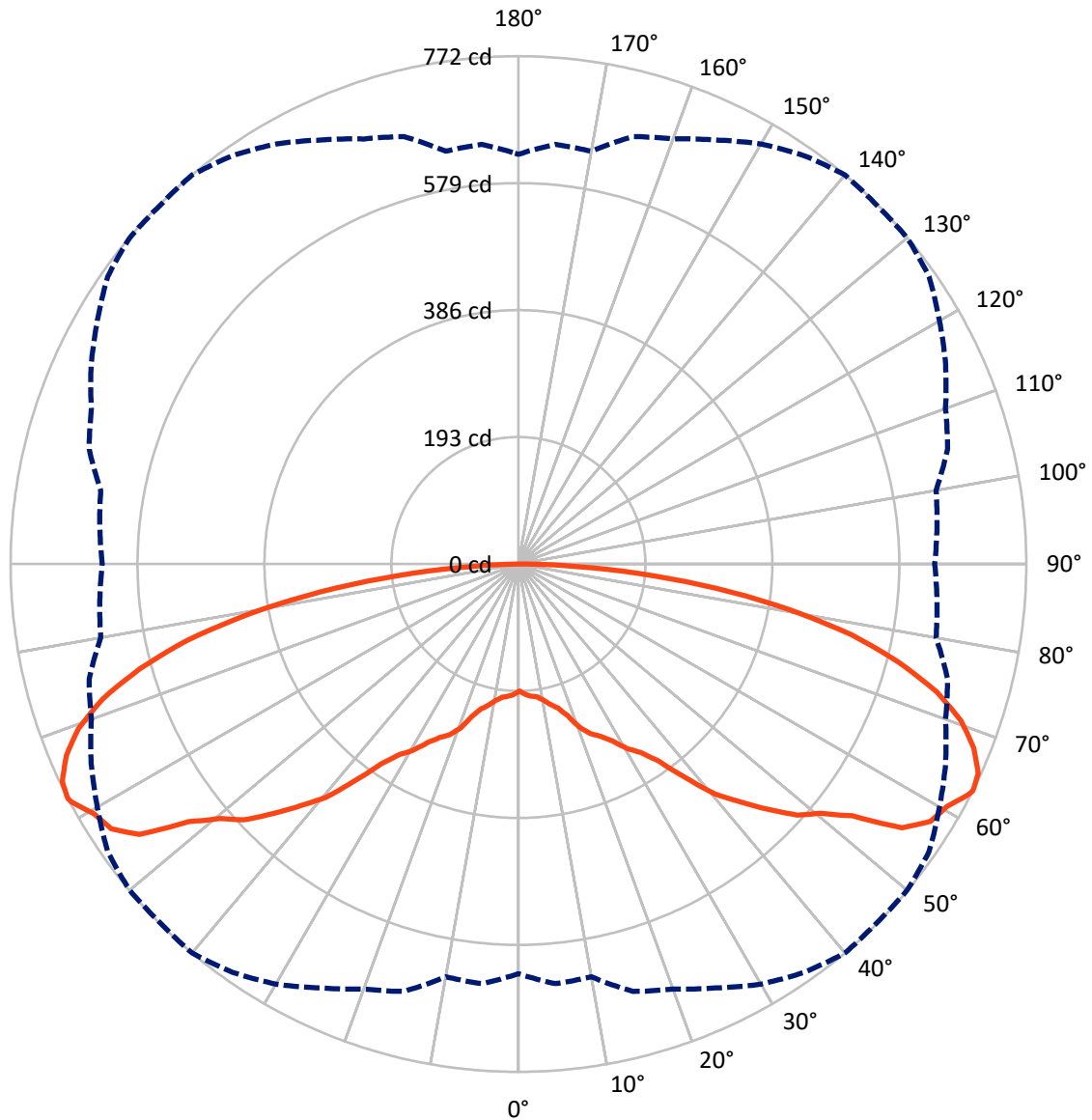
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.2 fc  
 Type V - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral      - - - Horizontal Cone Through 63-Deg Vertical

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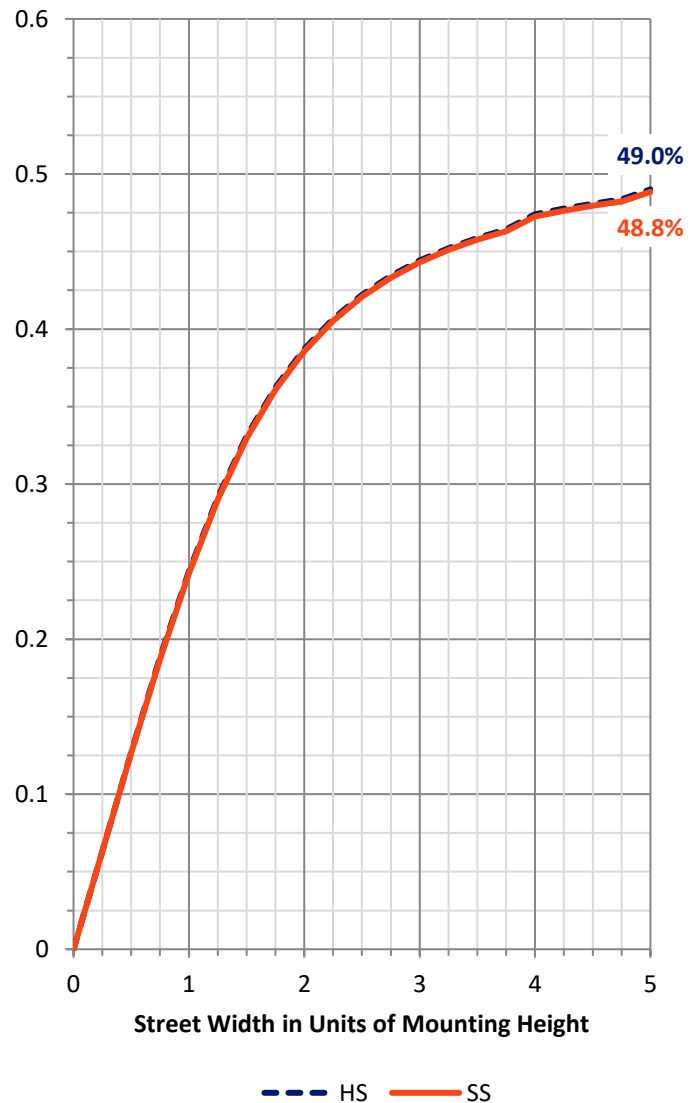
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1416.3	0.0	1416.3
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	1416.3	0.0	1416.3
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	2832.6	0.0	2832.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	19.5	0.7
10°-20°	66.2	2.3
20°-30°	134.5	4.7
30°-40°	231.9	8.2
40°-50°	390.6	13.8
50°-60°	575.2	20.3
60°-70°	684.0	24.1
70°-80°	553.7	19.5
80°-90°	177.1	6.3
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°	2832.6	100.0
0°-180°	2832.6	100.0



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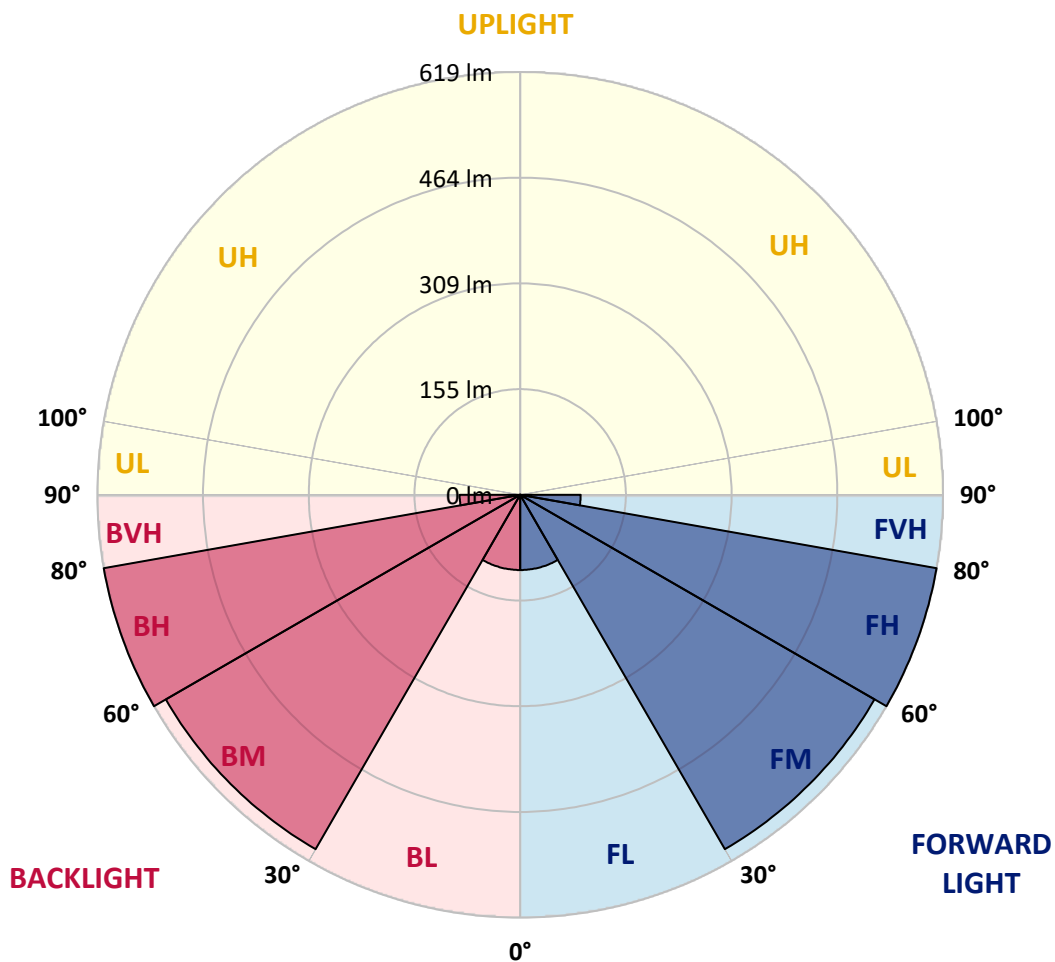
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	110.1	3.9			
FM (30°-60°)	598.8	21.1			
FH (60°-80°)	618.8	21.8			G0/660
FVH (80°-90°)	88.6	3.1			G1/100
BL (0°-30°)	110.1	3.9	B1/500		
BM (30°-60°)	598.8	21.1	B1/1000		
BH (60°-80°)	618.8	21.8	B2/1000		G0/660
BVH (80°-90°)	88.6	3.1			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°	192.8	192.8	192.8	192.8	192.8	192.8	192.8	192.8	192.8	192.8	192.8
2.5°	198.9	198.9	198.9	198.9	198.9	198.9	198.3	198.9	198.3	198.3	198.3
5°	202.7	202.7	202.7	202.7	202.1	202.1	201.6	201.6	201.6	201.1	201.6
7.5°	204.4	204.4	204.4	204.4	203.8	203.8	203.8	203.8	203.8	203.8	203.8
10°	208.2	208.2	208.7	209.3	210.4	210.4	210.4	211.0	210.4	210.4	210.4
12.5°	216.4	215.9	217.0	218.0	219.2	219.7	219.7	219.7	219.2	219.2	219.7
15°	227.9	226.8	227.4	227.9	228.5	229.0	229.0	228.5	227.4	227.4	227.4
17.5°	242.7	241.1	240.5	240.0	240.0	241.1	242.2	241.6	242.2	241.6	242.2
20°	260.3	259.1	259.1	259.1	259.7	261.9	264.1	265.2	264.6	263.5	265.2
22.5°	271.7	272.3	275.0	274.5	273.9	276.2	278.9	281.1	279.9	278.3	279.4
25°	284.4	284.4	288.2	289.8	288.2	288.2	289.3	290.9	289.8	288.8	289.8
27.5°	298.6	298.6	300.2	301.9	300.8	300.8	302.4	305.2	304.6	304.1	304.6
30°	315.6	313.4	311.7	314.5	317.3	317.8	319.4	323.8	324.9	324.3	325.5
32.5°	331.5	328.2	329.3	330.9	336.9	339.1	338.6	341.9	341.3	339.7	341.9
35°	346.8	350.7	352.8	356.1	358.3	361.0	361.0	367.1	368.2	366.6	368.2
37.5°	376.4	378.0	384.1	384.6	387.4	397.8	398.9	407.1	411.5	409.3	409.8
40°	416.9	416.4	420.8	427.3	432.8	446.0	449.8	455.3	459.1	457.5	459.7
42.5°	449.8	445.4	448.7	463.0	469.0	478.9	483.8	486.5	493.7	491.4	494.2
45°	473.4	475.0	479.4	493.7	497.5	505.7	517.2	522.2	531.5	528.7	530.4
47.5°	496.4	504.0	507.9	514.5	526.5	537.5	551.7	556.6	569.8	568.7	567.1
50°	526.5	532.5	536.9	541.8	558.3	576.4	588.4	590.6	595.0	591.7	597.2
52.5°	558.9	558.3	562.1	575.8	598.8	606.0	616.4	626.2	635.5	638.8	635.5
55°	601.6	587.9	603.8	623.5	633.4	650.3	675.5	689.3	707.3	710.1	704.6
57.5°	619.1	619.1	635.5	647.0	665.2	695.3	722.1	728.7	738.0	733.1	738.6
60°	616.9	637.7	637.7	658.0	687.6	714.5	724.3	735.3	747.9	747.3	747.3
62.5°	619.7	639.9	634.4	669.5	687.6	709.5	731.4	751.7	769.2	768.7	768.2
63°	622.4	639.9	636.7	672.2	687.1	710.6	736.9	757.2	771.5	770.3	770.9
65°	630.6	625.7	645.4	667.9	684.8	719.9	741.8	757.7	767.6	767.1	767.1
67.5°	615.3	603.8	631.7	640.5	672.8	704.0	721.0	739.1	746.2	746.2	745.1
70°	568.2	573.1	592.3	606.5	639.4	667.3	681.6	704.6	713.3	713.3	712.8
72.5°	520.5	528.7	541.8	562.1	593.4	615.3	632.3	653.1	664.6	664.0	664.0
75°	459.7	467.3	482.7	501.9	529.2	550.7	564.3	584.1	597.2	602.1	596.7
77.5°	391.2	393.4	407.6	427.3	451.4	466.3	487.1	506.3	517.2	516.6	515.0
80°	307.9	310.7	322.7	345.1	358.3	375.9	395.1	405.4	414.7	414.7	413.6
82.5°	212.6	218.6	230.6	245.5	259.1	274.5	284.9	295.3	303.0	302.4	300.8
85°	120.0	122.7	134.2	143.5	154.0	163.8	171.0	177.5	184.1	184.1	183.0
87.5°	36.2	32.3	38.9	42.7	48.2	53.1	56.4	63.0	67.4	62.4	62.4
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°	192.8	192.8	192.8	192.8	192.8	192.8	192.8	192.8
2.5°	198.9	198.9	198.9	198.9	198.9	198.9	198.9	198.9
5°	201.6	202.1	202.1	202.7	202.7	202.7	202.7	202.7
7.5°	203.8	203.8	203.8	203.8	204.4	204.4	204.4	204.4
10°	210.4	211.0	210.4	210.4	209.3	208.7	208.7	208.7
12.5°	219.7	220.3	220.3	219.2	218.0	217.0	216.4	215.9
15°	228.5	230.1	229.0	228.5	227.4	227.9	227.9	228.5
17.5°	242.2	242.7	241.1	240.0	239.5	240.5	241.6	242.2
20°	265.7	264.6	261.3	260.3	259.1	259.1	260.3	260.3
22.5°	280.5	277.8	275.6	274.5	274.5	274.5	272.9	270.6
25°	290.9	289.3	287.6	288.8	289.8	288.2	284.4	283.8
27.5°	305.2	301.9	301.4	300.8	301.4	300.2	299.7	297.5
30°	323.8	319.4	318.3	317.3	314.0	312.8	314.0	315.6
32.5°	341.3	338.6	339.7	337.5	331.5	329.3	330.4	329.9
35°	366.6	361.6	361.6	357.2	355.6	355.0	350.7	346.8
37.5°	406.5	400.0	398.3	388.5	384.1	385.2	379.2	374.8
40°	455.3	450.4	446.0	435.0	429.0	421.3	417.5	417.5
42.5°	487.6	484.3	478.3	470.6	464.0	450.9	446.0	448.7
45°	523.2	518.9	506.3	498.6	492.5	483.2	477.8	472.3
47.5°	559.4	553.4	538.6	528.7	514.5	511.7	505.7	498.0
50°	591.2	589.0	578.5	562.1	544.1	539.7	534.2	527.1
52.5°	630.1	616.9	608.2	601.0	580.8	566.5	558.9	562.1
55°	693.7	677.2	654.7	632.3	627.9	610.9	591.7	602.1
57.5°	730.4	721.0	704.0	668.4	650.9	639.4	626.8	617.5
60°	739.1	722.1	718.3	691.4	663.5	639.4	644.3	622.4
62.5°	756.1	733.1	711.7	690.4	673.4	640.5	639.4	627.9
63°	761.6	738.6	716.1	690.4	675.0	644.3	638.3	632.3
65°	760.5	740.7	723.8	690.4	667.3	655.3	625.7	639.4
67.5°	739.7	723.2	703.5	680.5	642.1	632.8	612.0	614.7
70°	706.2	684.8	666.2	644.9	614.2	592.8	580.2	569.8
72.5°	654.2	635.0	615.3	595.6	568.2	542.4	533.6	522.2
75°	585.1	566.5	548.4	529.8	504.0	481.1	471.7	463.5
77.5°	506.3	490.4	464.6	447.1	432.3	407.6	398.9	390.1
80°	403.8	396.1	377.5	354.5	346.8	322.7	316.1	304.6
82.5°	293.7	286.0	271.2	255.3	246.0	233.4	222.4	214.8
85°	179.2	171.0	163.3	149.0	143.5	134.2	125.5	121.1
87.5°	64.7	58.1	52.1	45.5	42.2	35.6	34.5	31.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)