

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: P197509

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197509
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115438)
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-E1-5CQ-PM-LWR-LW-8030
Description: TOPTIER LED AREA/SITE LUMINAIRE
CONCENTRATED 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: 3016.5 lumens
Efficiency: N/A
Efficacy: 107.7 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 28
Input Voltage (V): NR
Input Current (A_{in}): 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

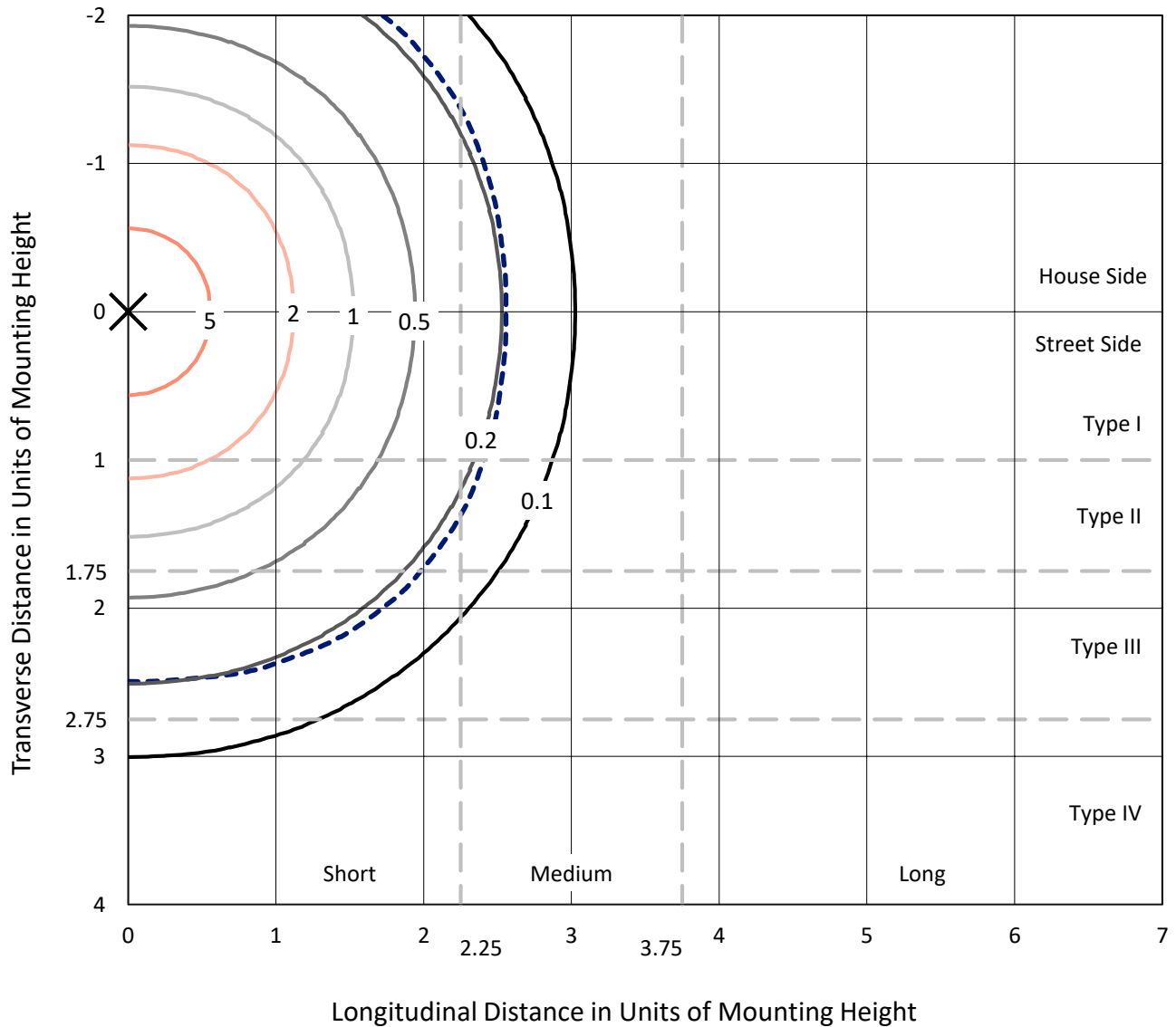


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

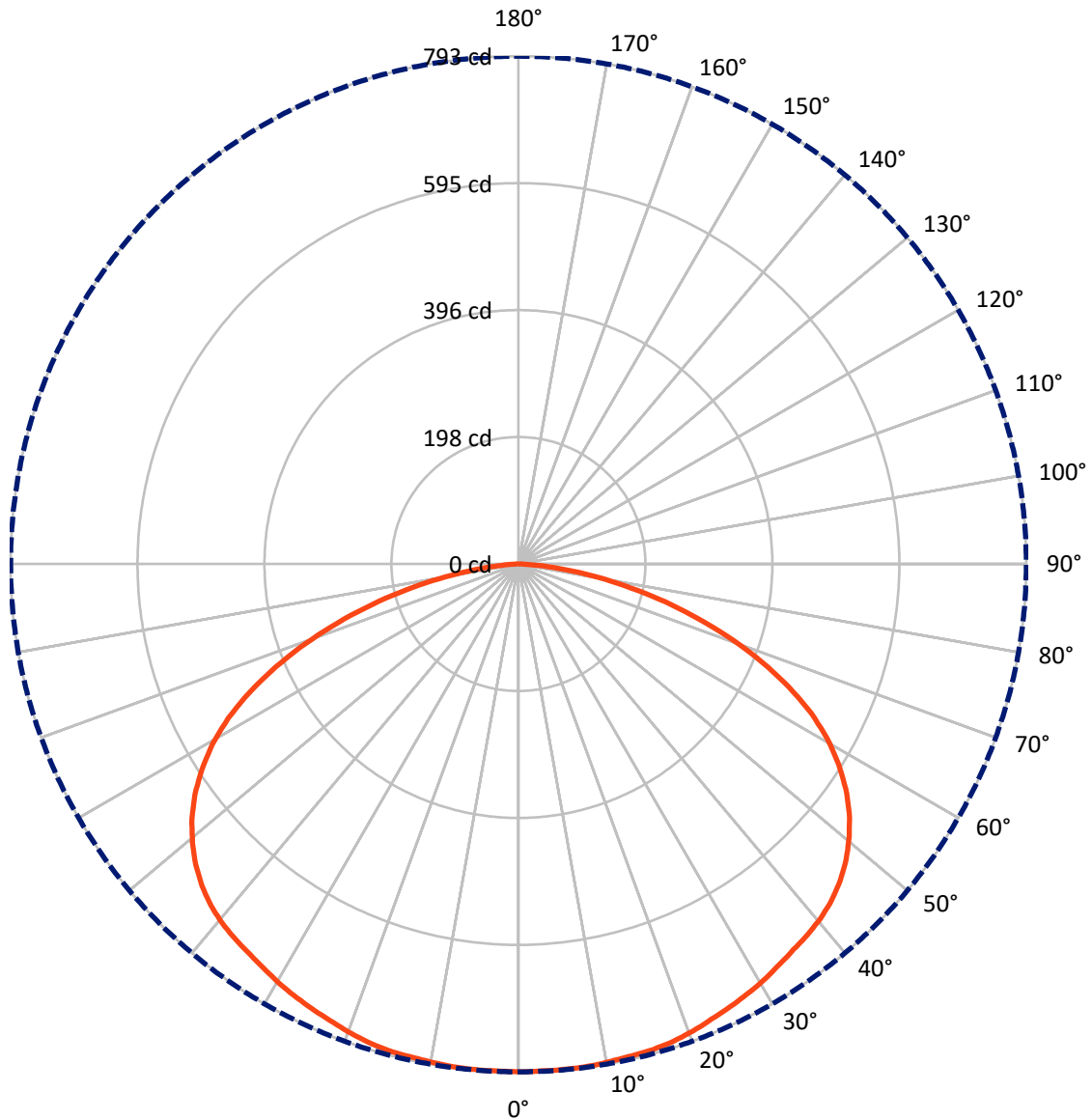


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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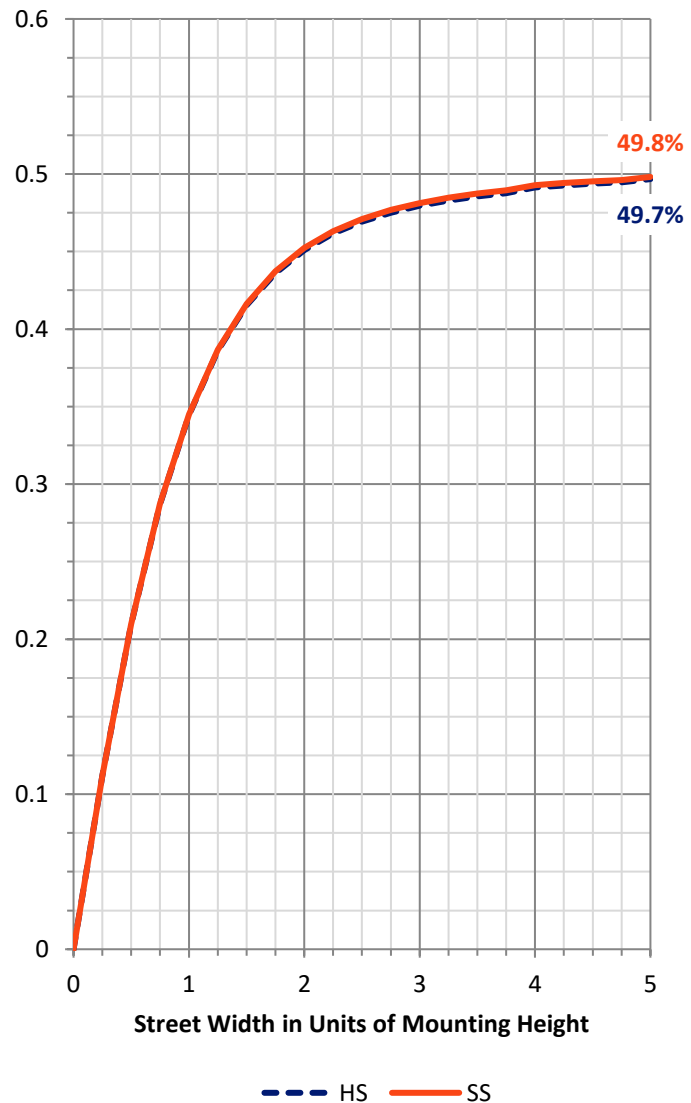
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1508.2	0.0	1508.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1508.2	0.0	1508.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	3016.5	0.0	3016.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	75.5	2.5
10°-20°	222.5	7.4
20°-30°	354.3	11.7
30°-40°	464.5	15.4
40°-50°	547.8	18.2
50°-60°	567.4	18.8
60°-70°	474.5	15.7
70°-80°	258.6	8.6
80°-90°	51.3	1.7
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°	3016.5	100.0
0°-180°	3016.5	100.0



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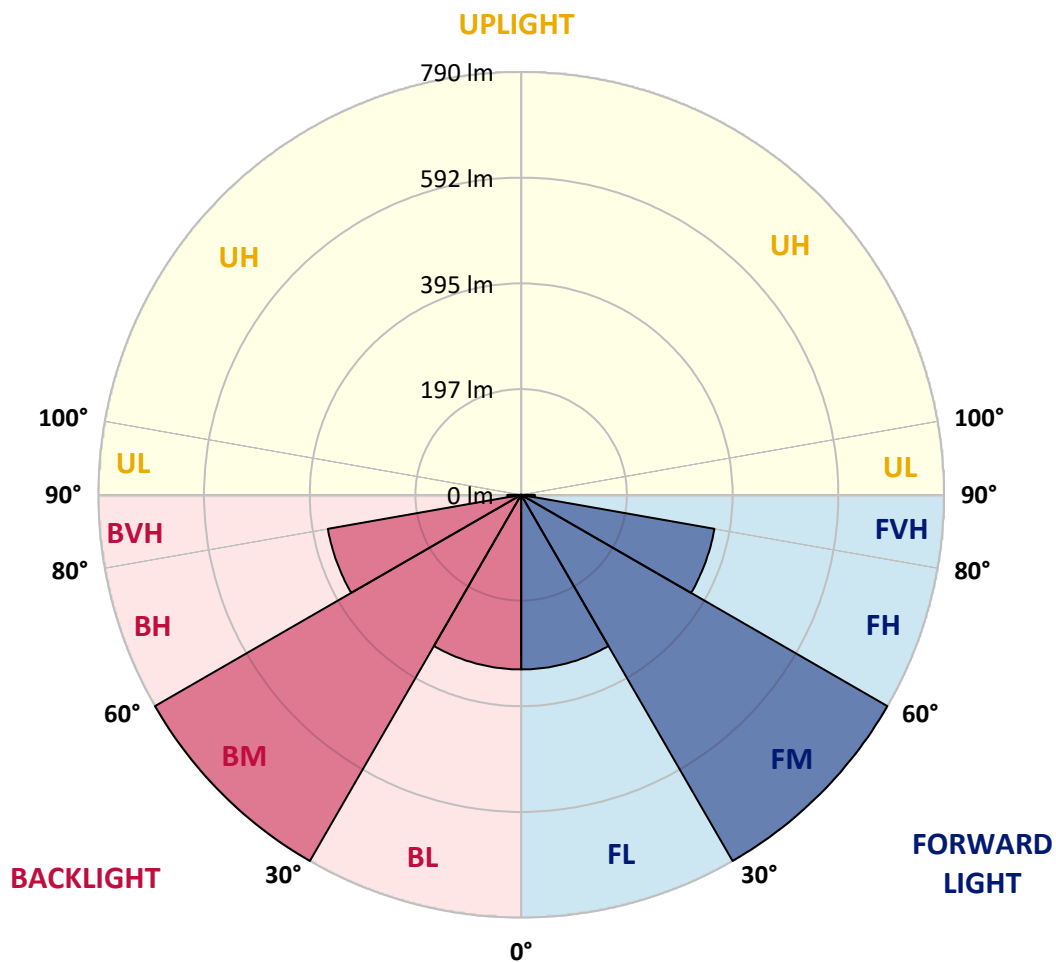
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	326.1	10.8			
FM	(30°-60°)	789.9	26.2			
FH	(60°-80°)	366.6	12.2			G0/660
FVH	(80°-90°)	25.7	0.9			G1/100
BL	(0°-30°)	326.1	10.8	B1/500		
BM	(30°-60°)	789.9	26.2	B1/1000		
BH	(60°-80°)	366.6	12.2	B1/500		G0/660
BVH	(80°-90°)	25.7	0.9			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	792.7	792.7	792.7	792.7	792.7	792.7	792.7	792.7	792.7	792.7	792.7
2.5°	792.1	792.7	792.7	792.7	792.7	792.7	792.7	792.7	792.1	792.7	792.7
5°	792.1	792.1	792.1	792.1	792.7	792.1	792.1	792.1	792.1	792.1	792.1
7.5°	791.5	790.8	790.8	790.8	790.8	790.8	791.5	791.5	791.5	791.5	791.5
10°	789.5	789.5	789.5	789.5	789.5	789.5	789.5	789.5	789.5	789.5	789.5
12.5°	787.6	787.6	787.6	787.6	788.3	788.3	788.3	788.3	788.3	788.3	787.6
15°	786.4	786.4	786.4	786.4	786.4	786.4	786.4	786.4	786.4	786.4	786.4
17.5°	783.3	783.3	783.3	783.3	783.8	783.8	783.8	783.8	783.8	783.8	783.8
20°	778.1	778.1	778.1	778.1	778.1	778.8	779.4	779.4	779.4	779.4	779.4
22.5°	771.8	771.8	772.4	772.4	773.0	773.0	773.7	773.7	773.7	773.7	773.7
25°	766.1	766.1	766.1	766.7	766.7	766.7	767.3	768.0	768.0	768.0	767.3
27.5°	760.4	760.4	760.4	761.0	761.0	761.0	761.6	761.6	762.3	761.6	761.6
30°	754.0	753.4	753.4	754.0	754.6	754.6	755.3	755.3	755.3	755.3	754.6
32.5°	746.4	746.4	747.0	747.7	747.7	748.3	748.9	748.9	748.9	749.6	748.3
35°	739.4	740.1	740.1	740.7	742.0	742.6	743.2	743.8	743.8	743.8	742.6
37.5°	733.7	734.3	735.0	736.3	737.5	738.8	740.1	741.3	740.7	740.7	738.8
40°	726.7	727.4	728.6	729.9	732.4	733.7	735.6	736.9	737.5	736.9	735.0
42.5°	717.2	717.8	719.1	721.0	724.2	726.7	728.6	730.6	731.2	730.6	728.6
45°	704.5	705.2	706.4	708.9	712.8	715.3	718.5	720.3	721.7	721.7	719.8
47.5°	688.6	689.3	691.1	693.8	697.5	700.7	704.5	707.1	708.3	709.6	707.7
50°	669.0	669.6	672.1	675.3	678.5	682.9	687.4	691.1	693.1	693.8	693.1
52.5°	646.8	647.4	650.0	653.1	657.5	662.6	667.7	672.1	674.7	676.0	674.7
55°	620.1	621.3	623.3	627.7	632.8	637.2	643.6	648.7	651.8	652.5	651.8
57.5°	589.0	590.9	592.8	597.9	603.0	609.3	614.4	619.4	623.3	623.9	623.9
60°	554.1	555.3	557.3	562.4	568.1	572.5	579.5	584.5	587.7	587.7	588.4
62.5°	512.8	514.2	517.2	521.1	527.4	531.8	537.5	542.7	545.9	547.1	546.4
65°	464.6	465.8	467.8	472.9	477.9	483.0	488.7	493.2	496.4	496.9	496.4
67.5°	411.3	412.6	413.8	420.2	425.2	427.2	434.1	438.0	439.8	440.5	440.5
70°	354.8	355.4	357.4	360.6	366.3	368.1	372.5	375.7	377.0	379.6	377.7
72.5°	295.8	297.0	301.5	302.1	306.5	309.1	310.4	310.4	313.6	313.6	314.2
75°	237.4	238.0	239.9	240.6	243.7	243.7	243.1	244.4	246.9	246.9	247.6
77.5°	179.6	179.6	182.8	180.3	181.5	179.0	180.3	179.0	180.9	180.3	180.9
80°	125.7	125.7	127.6	125.1	125.7	123.1	123.7	123.1	123.1	123.7	123.7
82.5°	77.4	78.1	79.4	77.4	77.4	75.5	76.2	76.8	76.8	76.2	75.5
85°	38.1	38.1	39.3	38.8	38.1	36.8	37.4	38.1	38.1	37.4	37.4
87.5°	10.1	10.1	10.8	10.8	10.1	9.5	10.1	10.8	10.8	10.8	10.1
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°	792.7	792.7	792.7	792.7	792.7	792.7	792.7	792.7
2.5°	792.1	792.1	792.7	792.1	792.7	792.1	792.7	792.7
5°	792.1	792.1	792.1	792.1	792.1	792.1	792.1	792.1
7.5°	790.8	791.5	790.8	790.8	790.8	791.5	790.8	791.5
10°	789.5	789.5	789.5	789.5	789.5	789.5	789.5	789.5
12.5°	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.0
15°	786.4	785.8	785.8	785.8	785.1	785.1	785.1	785.1
17.5°	783.8	783.3	782.6	782.6	782.6	782.6	781.9	781.9
20°	779.4	778.8	778.1	778.1	777.5	777.5	776.9	776.9
22.5°	773.0	773.0	772.4	771.8	771.8	771.2	771.2	770.5
25°	767.3	766.7	766.1	765.5	764.8	764.8	764.2	763.5
27.5°	761.0	759.8	759.1	758.4	757.8	757.2	756.6	755.9
30°	754.0	752.7	751.5	750.9	749.6	748.3	747.7	747.0
32.5°	747.0	745.8	743.8	742.0	740.7	739.4	738.1	737.5
35°	741.3	738.8	736.9	734.3	732.4	730.6	729.9	729.2
37.5°	736.9	734.3	731.2	728.6	726.7	724.2	722.9	721.7
40°	732.4	729.2	725.5	722.3	719.8	716.6	715.3	714.0
42.5°	726.1	722.3	718.5	714.6	710.9	707.7	705.7	704.5
45°	717.2	713.4	708.9	703.9	700.0	696.3	694.3	693.1
47.5°	705.2	701.4	696.3	691.8	687.4	683.6	681.0	679.7
50°	690.6	686.7	681.7	676.5	672.1	667.7	665.8	663.9
52.5°	672.1	669.0	663.3	659.4	654.4	650.0	648.0	646.8
55°	649.3	646.1	640.4	636.6	631.5	627.7	625.2	623.3
57.5°	621.3	618.8	612.5	608.7	603.6	599.8	597.9	596.6
60°	587.1	584.5	578.2	574.4	569.9	565.5	564.2	563.0
62.5°	544.6	543.3	538.2	533.8	529.3	524.9	523.6	522.9
65°	495.1	493.8	489.3	485.5	481.8	477.9	476.6	475.4
67.5°	438.6	438.0	434.1	430.9	428.4	424.6	424.0	422.7
70°	378.2	377.0	373.8	371.3	369.3	366.3	365.6	364.3
72.5°	315.4	314.8	312.9	309.7	309.7	305.3	304.7	304.0
75°	246.3	249.4	246.9	245.6	245.6	243.1	243.1	242.4
77.5°	180.3	183.5	185.3	182.8	185.3	182.8	182.8	182.1
80°	123.1	125.7	127.6	125.7	128.9	126.9	126.9	129.4
82.5°	74.9	77.4	78.7	78.1	79.9	79.4	78.7	80.6
85°	36.8	38.1	38.8	38.8	39.3	38.1	39.3	40.0
87.5°	9.5	10.1	10.8	10.1	10.8	10.8	10.8	11.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)