

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: P197510

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197510
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
Description: TOPTIER LED AREA/SITE LUMINAIRE
CONCENTRATED DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (168) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3524.4 lumens
Efficiency: N/A
Efficacy: 125.9 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

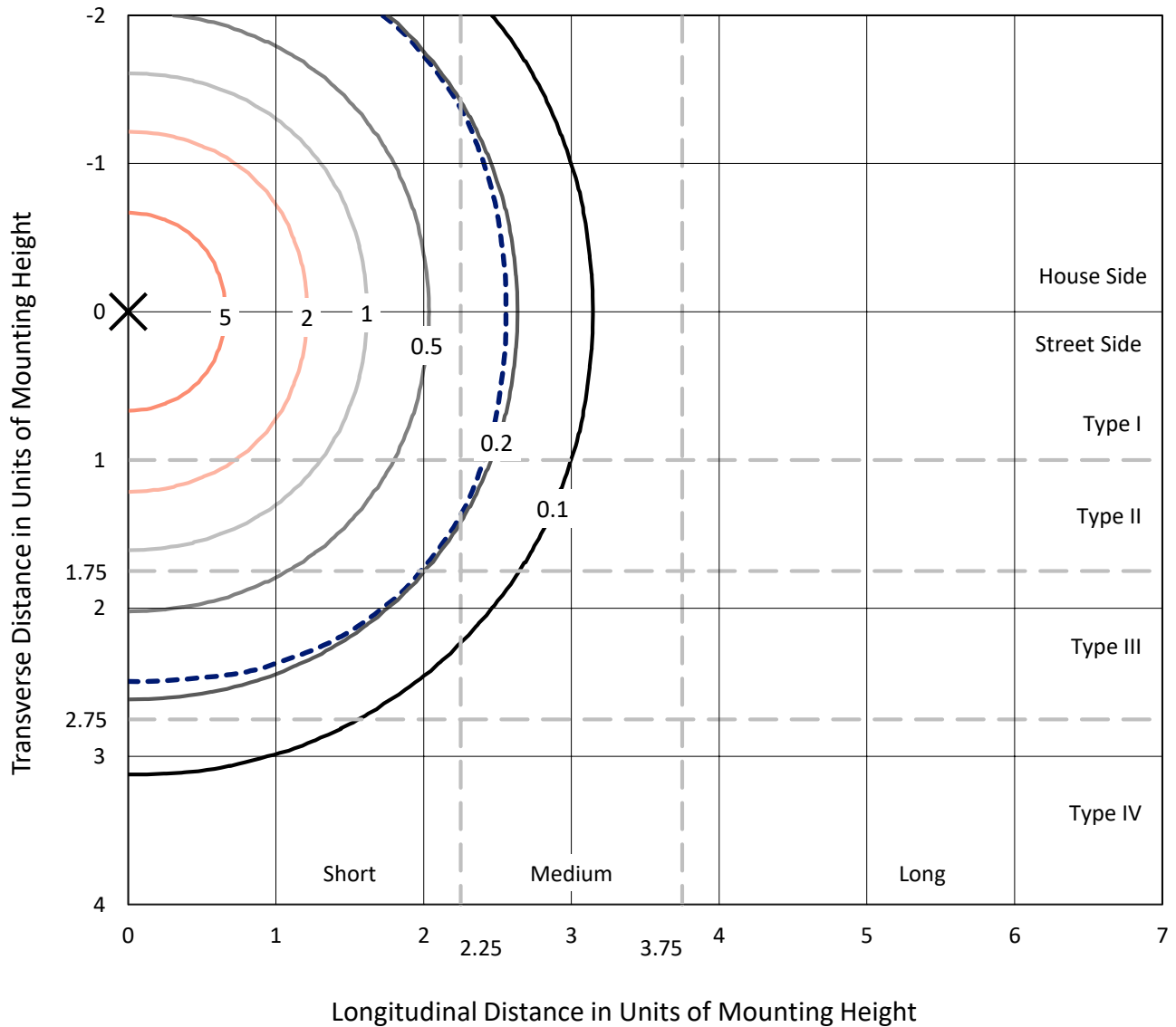
Input Watts (W): 28
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

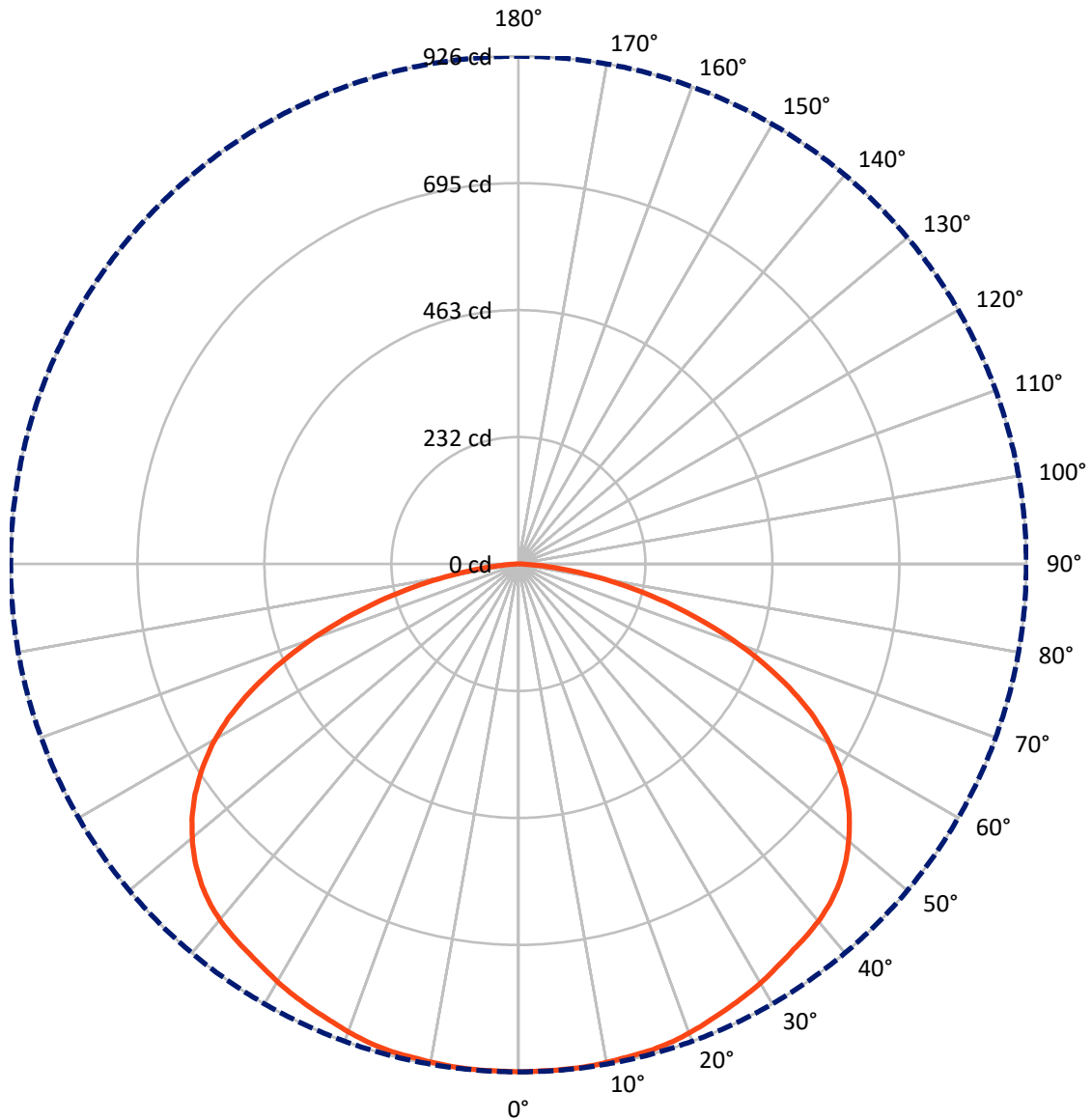
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 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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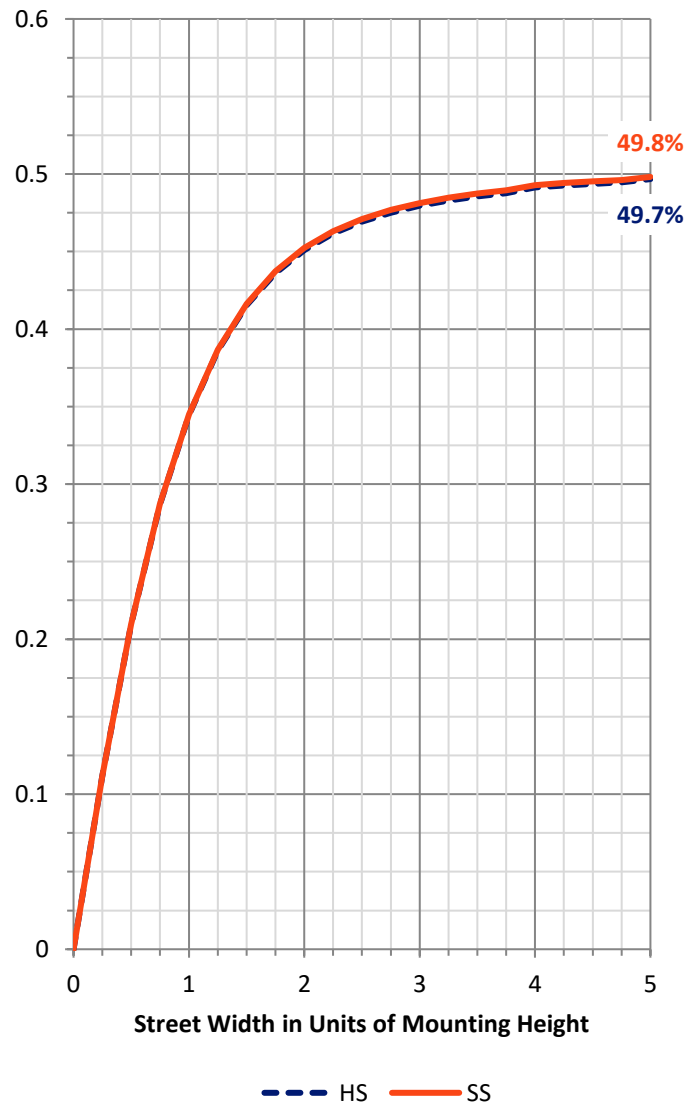
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1762.2	0.0	1762.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1762.2	0.0	1762.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	3524.4	0.0	3524.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	88.3	2.5
10°-20°	259.9	7.4
20°-30°	413.9	11.7
30°-40°	542.7	15.4
40°-50°	640.1	18.2
50°-60°	662.9	18.8
60°-70°	554.4	15.7
70°-80°	302.2	8.6
80°-90°	60.0	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°	3524.4	100.0
0°-180°	3524.4	100.0



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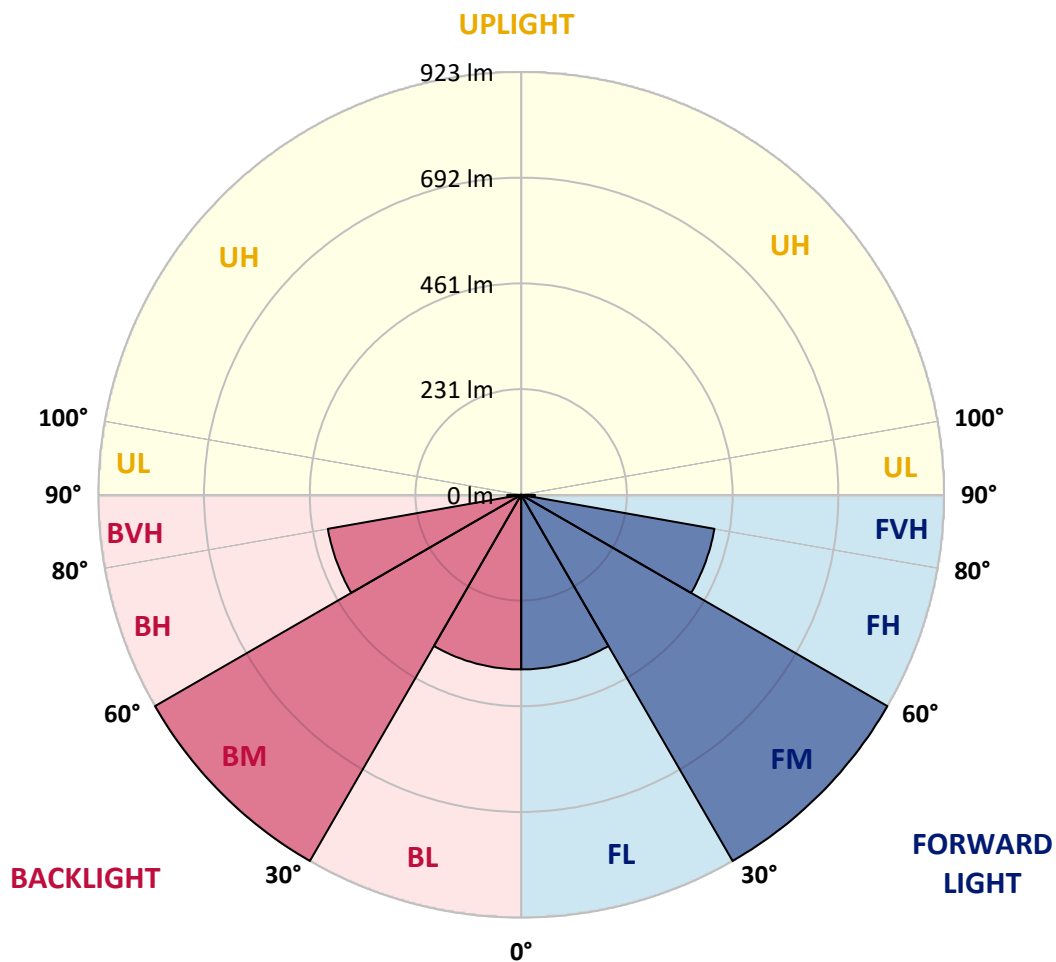
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	381.1	10.8			
FM	(30°-60°)	922.9	26.2			
FH	(60°-80°)	428.3	12.2			G0/660
FVH	(80°-90°)	30.0	0.9			G1/100
BL	(0°-30°)	381.1	10.8	B1/500		
BM	(30°-60°)	922.9	26.2	B1/1000		
BH	(60°-80°)	428.3	12.2	B1/500		G0/660
BVH	(80°-90°)	30.0	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°	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2
2.5°	925.5	926.2	926.2	926.2	926.2	926.2	926.2	926.2	925.5	926.2	926.2
5°	925.5	925.5	925.5	925.5	926.2	925.5	925.5	925.5	925.5	925.5	925.5
7.5°	924.8	924.0	924.0	924.0	924.0	924.0	924.8	924.8	924.8	924.8	924.8
10°	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6
12.5°	920.3	920.3	920.3	920.3	921.0	921.0	921.0	921.0	921.0	921.0	920.3
15°	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8	918.8
17.5°	915.1	915.1	915.1	915.1	915.9	915.9	915.9	915.9	915.9	915.9	915.9
20°	909.1	909.1	909.1	909.1	909.1	909.9	910.7	910.7	910.7	910.7	910.7
22.5°	901.8	901.8	902.4	902.4	903.2	903.2	904.0	904.0	904.0	904.0	904.0
25°	895.1	895.1	895.1	895.8	895.8	895.8	896.5	897.3	897.3	897.3	896.5
27.5°	888.4	888.4	888.4	889.1	889.1	889.1	889.9	889.9	890.7	889.9	889.9
30°	881.0	880.2	880.2	881.0	881.8	881.8	882.4	882.4	882.4	882.4	881.8
32.5°	872.1	872.1	872.9	873.5	873.5	874.3	875.1	875.1	875.1	875.8	874.3
35°	863.9	864.7	864.7	865.4	866.9	867.6	868.4	869.1	869.1	869.1	867.6
37.5°	857.2	858.0	858.8	860.2	861.7	863.2	864.7	866.2	865.4	865.4	863.2
40°	849.1	849.9	851.3	852.8	855.8	857.2	859.4	861.0	861.7	861.0	858.8
42.5°	838.0	838.7	840.2	842.4	846.1	849.1	851.3	853.5	854.3	853.5	851.3
45°	823.2	823.9	825.4	828.3	832.8	835.7	839.4	841.6	843.2	843.2	841.0
47.5°	804.6	805.3	807.5	810.5	815.0	818.7	823.2	826.1	827.6	829.1	826.9
50°	781.6	782.4	785.3	789.1	792.7	798.0	803.1	807.5	809.7	810.5	809.7
52.5°	755.6	756.4	759.4	763.1	768.3	774.2	780.2	785.3	788.3	789.7	788.3
55°	724.5	726.0	728.3	733.4	739.4	744.5	751.9	757.8	761.6	762.3	761.6
57.5°	688.1	690.4	692.6	698.6	704.5	711.9	717.8	723.8	728.3	728.9	728.9
60°	647.4	648.9	651.1	657.0	663.7	668.9	677.0	683.0	686.7	686.7	687.5
62.5°	599.2	600.7	604.3	608.8	616.2	621.4	628.1	634.0	637.8	639.2	638.5
65°	542.9	544.3	546.5	552.4	558.4	564.3	571.0	576.2	579.9	580.7	579.9
67.5°	480.5	482.1	483.5	491.0	496.8	499.1	507.2	511.6	513.9	514.6	514.6
70°	414.5	415.3	417.5	421.3	427.9	430.2	435.3	439.0	440.5	443.5	441.3
72.5°	345.6	347.0	352.2	353.0	358.1	361.1	362.6	362.6	366.4	366.4	367.0
75°	277.3	278.1	280.3	281.1	284.8	284.8	284.0	285.5	288.4	288.4	289.2
77.5°	209.9	209.9	213.5	210.6	212.1	209.1	210.6	209.1	211.3	210.6	211.3
80°	146.8	146.8	149.1	146.1	146.8	143.8	144.6	143.8	143.8	144.6	144.6
82.5°	90.5	91.2	92.7	90.5	90.5	88.3	89.0	89.7	89.7	89.0	88.3
85°	44.5	44.5	46.0	45.2	44.5	43.0	43.8	44.5	44.5	43.8	43.8
87.5°	11.9	11.9	12.6	12.6	11.9	11.1	11.9	12.6	12.6	12.6	11.9
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°	926.2	926.2	926.2	926.2	926.2	926.2	926.2	926.2
2.5°	925.5	925.5	926.2	925.5	926.2	925.5	926.2	926.2
5°	925.5	925.5	925.5	925.5	925.5	925.5	925.5	925.5
7.5°	924.0	924.8	924.0	924.0	924.0	924.8	924.0	924.8
10°	922.6	922.6	922.6	922.6	922.6	922.6	922.6	922.6
12.5°	920.3	920.3	920.3	920.3	920.3	920.3	920.3	919.6
15°	918.8	918.1	918.1	918.1	917.3	917.3	917.3	917.3
17.5°	915.9	915.1	914.3	914.3	914.3	914.3	913.7	913.7
20°	910.7	909.9	909.1	909.1	908.4	908.4	907.7	907.7
22.5°	903.2	903.2	902.4	901.8	901.8	901.0	901.0	900.2
25°	896.5	895.8	895.1	894.3	893.6	893.6	892.9	892.1
27.5°	889.1	887.7	886.9	886.2	885.4	884.7	884.0	883.2
30°	881.0	879.5	878.0	877.3	875.8	874.3	873.5	872.9
32.5°	872.9	871.3	869.1	866.9	865.4	863.9	862.4	861.7
35°	866.2	863.2	861.0	858.0	855.8	853.5	852.8	852.1
37.5°	861.0	858.0	854.3	851.3	849.1	846.1	844.6	843.2
40°	855.8	852.1	847.6	843.9	841.0	837.2	835.7	834.3
42.5°	848.3	843.9	839.4	835.0	830.5	826.9	824.6	823.2
45°	838.0	833.5	828.3	822.4	818.0	813.5	811.3	809.7
47.5°	823.9	819.4	813.5	808.3	803.1	798.6	795.7	794.2
50°	806.8	802.4	796.4	790.5	785.3	780.2	777.9	775.7
52.5°	785.3	781.6	774.9	770.5	764.5	759.4	757.2	755.6
55°	758.6	754.9	748.3	743.8	737.8	733.4	730.5	728.3
57.5°	726.0	723.0	715.6	711.1	705.3	700.8	698.6	697.0
60°	685.9	683.0	675.6	671.1	665.9	660.7	659.2	657.8
62.5°	636.2	634.8	628.9	623.7	618.4	613.2	611.8	611.0
65°	578.4	577.0	571.8	567.3	562.9	558.4	556.9	555.4
67.5°	512.4	511.6	507.2	503.5	500.5	496.1	495.4	493.9
70°	441.9	440.5	436.8	433.8	431.6	427.9	427.2	425.7
72.5°	368.6	367.8	365.6	361.9	361.9	356.7	355.9	355.2
75°	287.8	291.4	288.4	287.0	287.0	284.0	284.0	283.3
77.5°	210.6	214.3	216.5	213.5	216.5	213.5	213.5	212.9
80°	143.8	146.8	149.1	146.8	150.5	148.3	148.3	151.3
82.5°	87.5	90.5	91.9	91.2	93.5	92.7	91.9	94.1
85°	43.0	44.5	45.2	45.2	46.0	44.5	46.0	46.7
87.5°	11.1	11.9	12.6	11.9	12.6	12.6	12.6	13.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)