

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: P197873

Luminaire Tested: **TT-C2-LED-E1-WQ-SG-LWR-LW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197873
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P33418)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C2-LED-E1-WQ-SG-LWR-LW-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND LumaWatt WIRELESS SENSOR
Light Source: (168) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3297.4 lumens
Efficiency: N/A
Efficacy: 97.0 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B2 - U0 - G1

Input Watts (W): 34
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

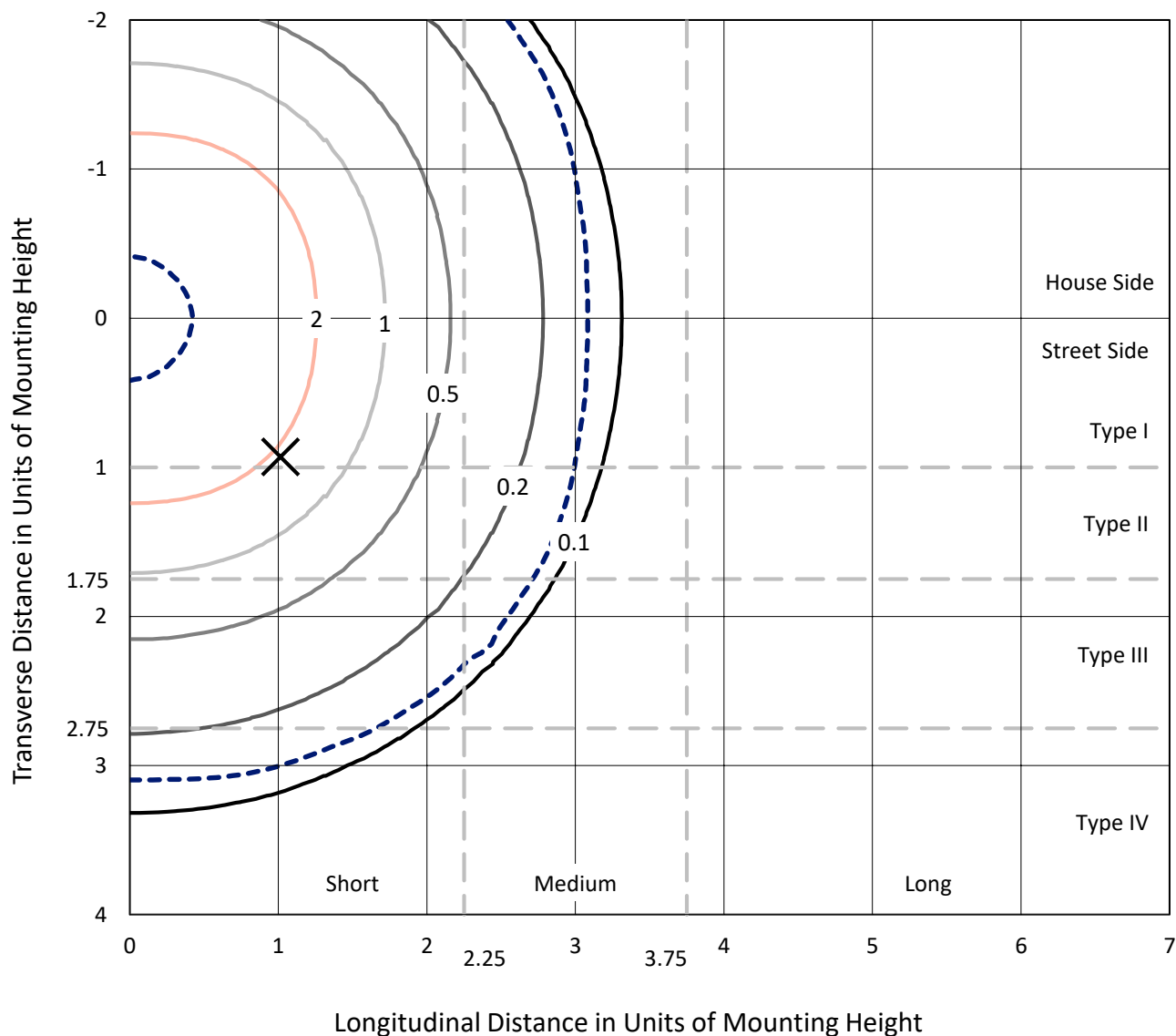


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

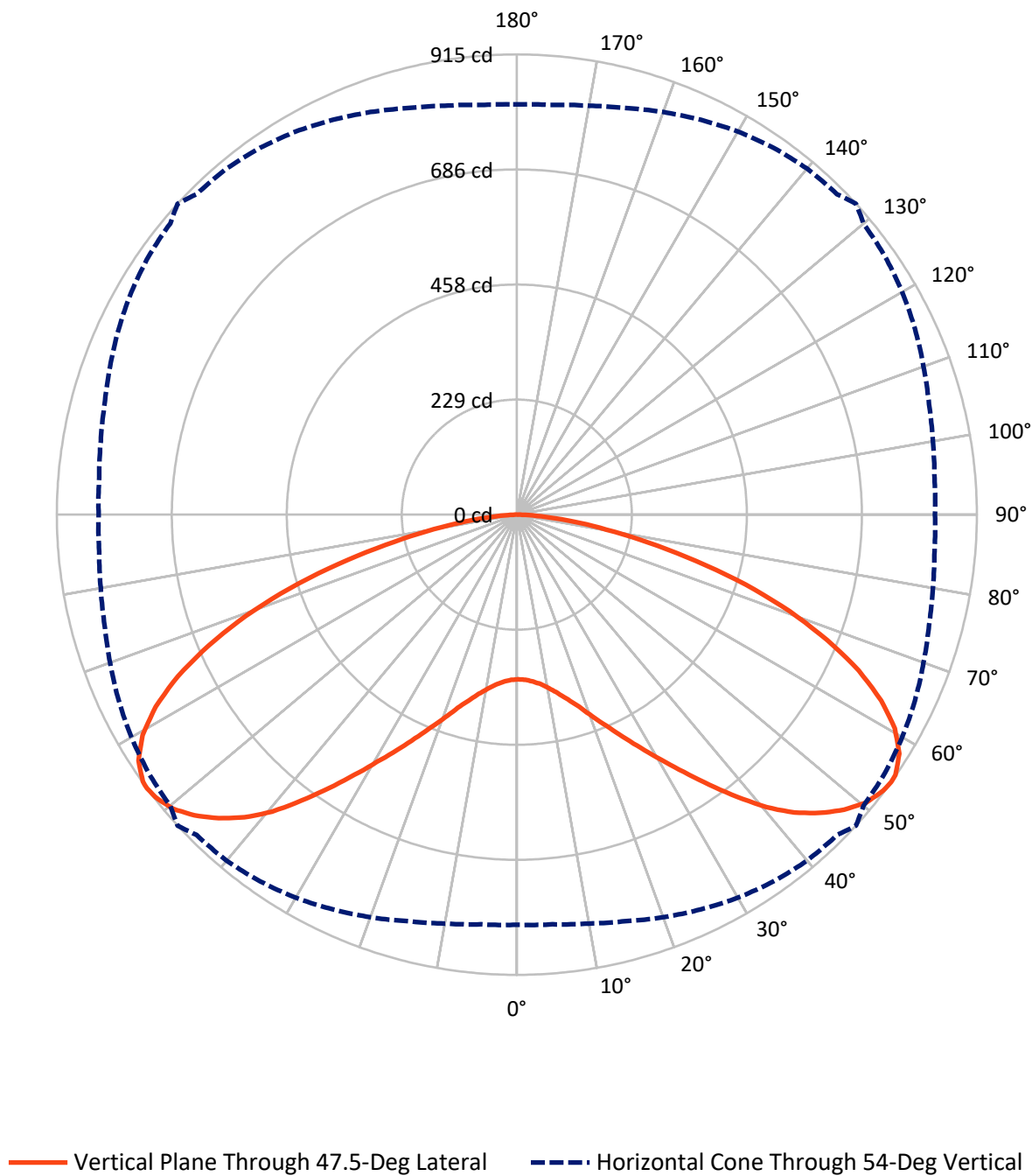


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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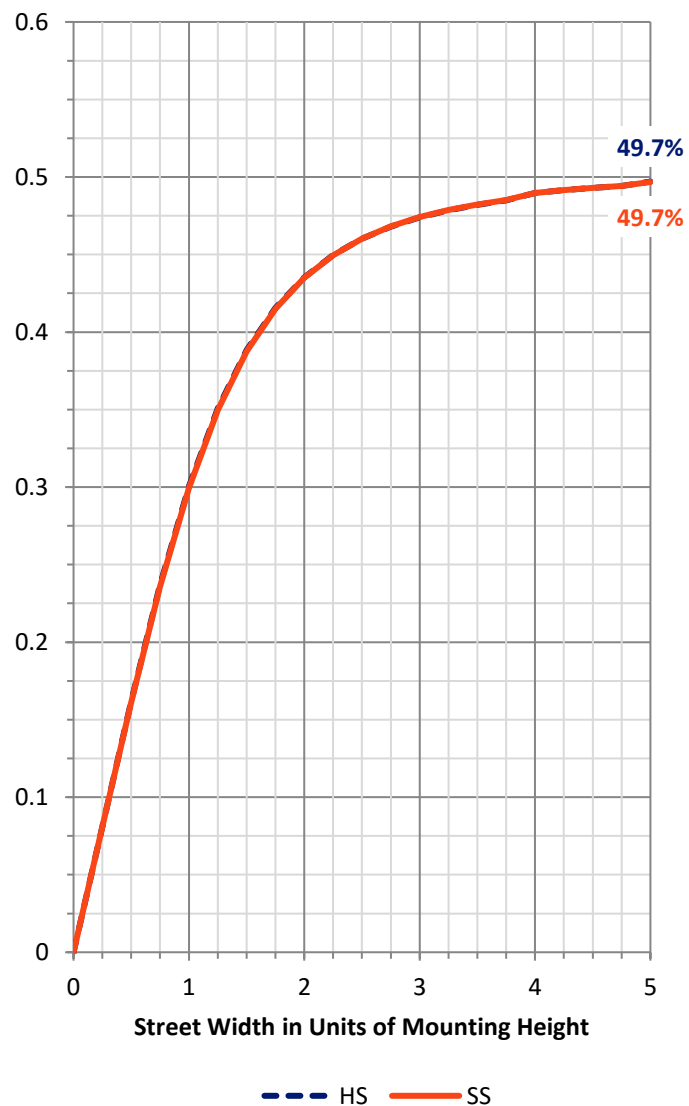
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1648.7	0.0	1648.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1648.7	0.0	1648.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	3297.4	0.0	3297.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.3	1.0
10°-20°	109.6	3.3
20°-30°	225.6	6.8
30°-40°	403.5	12.2
40°-50°	619.0	18.8
50°-60°	763.2	23.1
60°-70°	690.5	20.9
70°-80°	380.2	11.5
80°-90°	73.5	2.2
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°	3297.4	100.0
0°-180°	3297.4	100.0

Coefficient of Utilization



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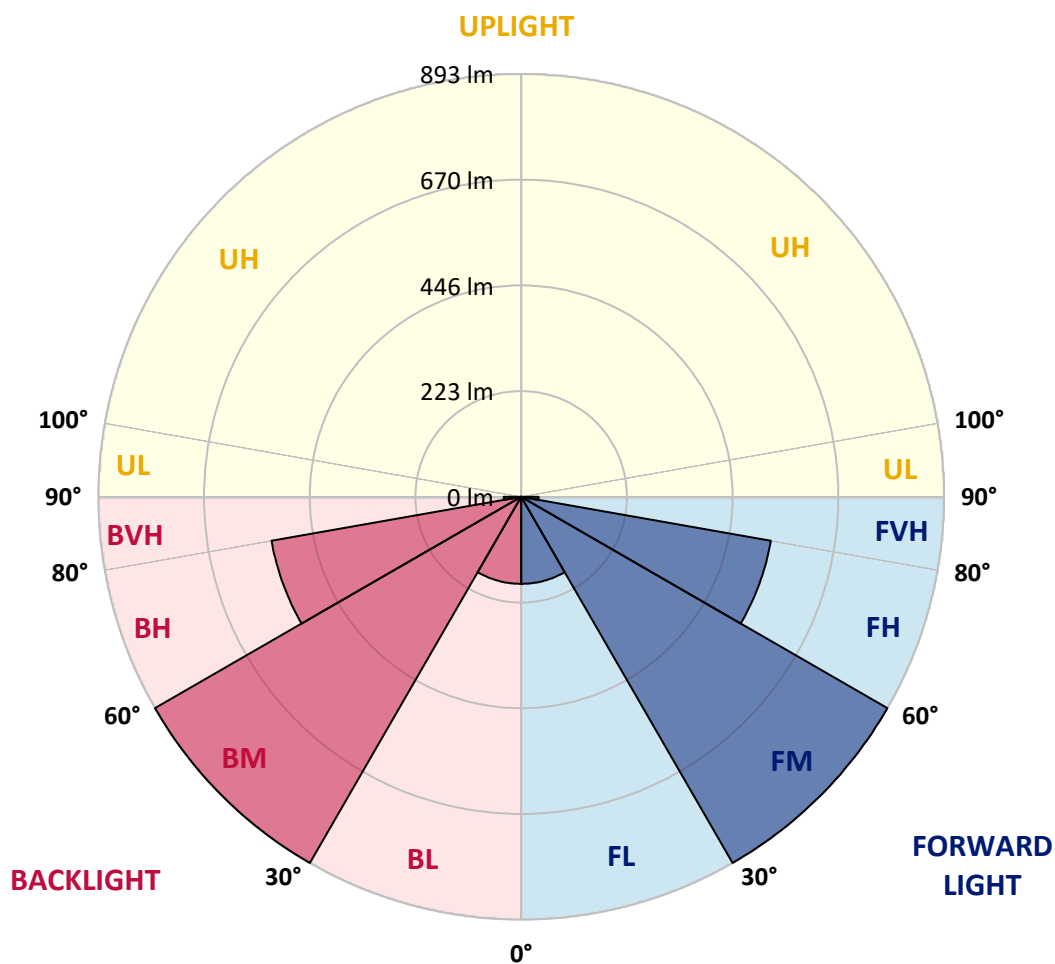
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	183.8	5.6			
FM	(30°-60°)	892.9	27.1			
FH	(60°-80°)	535.3	16.2			G0/660
FVH	(80°-90°)	36.8	1.1			G1/100
BL	(0°-30°)	183.8	5.6	B1/500		
BM	(30°-60°)	892.9	27.1	B1/1000		
BH	(60°-80°)	535.3	16.2	B2/1000		G0/660
BVH	(80°-90°)	36.8	1.1			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°	47.5°
0°	327.4	327.4	327.4	327.4	327.4	327.4	327.4	327.4	327.4	327.4	327.4
2.5°	328.8	328.8	328.8	328.8	328.8	328.8	328.8	328.8	328.8	328.8	328.8
5°	333.1	333.1	333.1	333.8	333.1	333.1	333.1	333.1	333.1	333.1	333.1
7.5°	340.2	340.2	340.2	340.2	340.2	340.2	339.5	339.5	340.2	339.5	340.2
10°	350.2	349.5	349.5	350.2	350.2	349.5	350.2	350.2	350.2	350.2	350.9
12.5°	363.0	363.0	363.7	363.7	363.7	364.4	364.4	363.7	364.4	364.4	364.4
15°	380.1	380.1	380.1	380.1	380.8	381.5	380.8	380.8	380.1	380.1	381.5
17.5°	400.0	400.0	400.0	400.0	401.4	401.4	400.7	401.4	402.2	402.2	401.4
20°	424.2	423.5	422.8	423.5	424.9	424.9	425.6	426.4	426.4	426.4	427.8
22.5°	449.8	449.1	450.6	451.3	452.0	452.7	452.7	453.4	454.8	454.1	456.2
25°	478.3	477.6	478.3	479.7	482.6	482.6	483.3	484.7	484.7	484.0	489.0
27.5°	510.3	510.3	511.1	513.9	514.6	515.3	517.5	518.9	521.0	521.0	525.3
30°	545.2	544.5	545.9	548.8	550.9	553.0	555.9	559.5	560.2	560.9	565.1
32.5°	580.8	580.8	582.2	587.2	590.8	594.3	598.6	602.2	603.6	603.6	610.0
35°	618.5	619.2	622.8	626.4	633.5	637.7	642.0	647.0	649.8	651.3	659.8
37.5°	658.4	660.5	663.4	668.4	675.5	682.6	689.0	696.8	701.1	702.5	711.8
40°	696.1	699.0	703.2	710.3	717.5	727.4	735.3	743.1	748.1	750.9	765.2
42.5°	733.1	734.5	739.5	747.4	756.6	765.9	776.5	785.1	790.1	794.3	810.0
45°	762.3	763.7	770.1	779.4	790.1	801.5	812.1	822.1	827.1	830.6	846.3
47.5°	786.5	789.4	796.5	805.7	816.4	829.9	842.0	852.0	858.4	860.5	876.9
50°	804.3	808.6	815.0	825.7	838.5	852.0	864.8	875.5	882.6	885.4	900.4
52.5°	814.3	817.8	824.9	835.6	850.6	864.1	877.6	888.3	896.1	899.0	912.5
54°	815.7	817.8	825.7	837.0	852.0	866.2	879.7	890.4	898.3	901.1	915.3
55°	814.3	815.7	824.2	834.9	850.6	864.8	878.3	889.0	897.5	900.4	913.9
57.5°	800.0	802.2	809.3	820.7	834.9	851.3	864.1	874.8	883.3	884.7	897.5
60°	770.8	773.7	780.1	792.2	806.4	820.7	833.5	842.7	850.6	854.8	864.1
62.5°	728.9	730.3	736.7	747.4	760.2	775.1	785.1	794.3	801.5	805.7	813.6
65°	669.1	675.5	680.5	689.0	699.0	711.1	723.9	731.0	734.5	741.7	747.4
67.5°	602.2	606.4	611.4	619.2	625.6	633.5	645.6	652.0	656.3	661.2	666.2
70°	527.4	526.0	531.7	536.0	543.1	548.1	555.9	559.5	564.4	567.3	575.8
72.5°	438.5	440.6	445.6	450.6	452.7	454.1	460.5	462.7	466.9	465.5	476.2
75°	358.0	354.5	355.9	356.6	358.0	356.6	360.9	363.0	365.1	363.0	368.7
77.5°	270.5	266.2	267.6	266.9	266.9	265.5	264.8	264.8	265.5	264.1	267.6
80°	186.5	184.3	185.1	186.5	182.9	183.6	179.4	179.4	179.4	179.4	180.8
82.5°	115.3	112.5	111.7	112.5	112.5	110.3	111.0	108.2	107.5	106.8	113.2
85°	56.2	54.8	56.2	54.8	54.1	54.1	52.7	53.4	52.0	51.2	55.5
87.5°	14.9	14.2	14.2	14.2	13.5	14.2	14.2	14.2	14.2	14.9	17.1
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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°
0°	327.4	327.4	327.4	327.4	327.4	327.4	327.4	327.4	327.4
2.5°	328.8	328.8	328.8	328.8	328.8	328.8	328.8	328.8	328.1
5°	333.1	333.1	333.1	333.1	333.1	333.1	333.1	333.1	333.1
7.5°	340.2	340.2	339.5	339.5	339.5	339.5	339.5	339.5	339.5
10°	350.2	350.9	349.5	349.5	350.2	349.5	349.5	348.8	348.8
12.5°	364.4	363.7	364.4	364.4	363.7	363.0	362.3	361.6	362.3
15°	380.8	380.1	380.1	380.1	379.4	379.4	378.7	379.4	378.7
17.5°	400.7	400.7	401.4	399.3	400.0	398.6	398.6	398.6	397.9
20°	426.4	425.6	424.9	422.8	423.5	422.1	421.4	420.7	419.9
22.5°	454.1	452.7	452.0	449.8	450.6	449.1	447.0	445.6	445.6
25°	484.7	483.3	481.9	481.2	480.4	477.6	476.2	474.0	475.5
27.5°	521.0	518.2	516.0	513.2	513.9	510.3	508.9	507.5	507.5
30°	560.2	558.0	554.5	552.3	551.6	548.1	545.2	543.8	543.1
32.5°	602.9	601.4	599.3	595.8	594.3	588.6	586.5	584.4	583.7
35°	653.4	649.8	647.7	642.7	637.7	634.2	629.2	627.8	626.4
37.5°	700.4	700.4	696.8	691.1	684.0	679.0	674.8	671.9	669.8
40°	750.2	748.8	743.1	738.1	731.0	723.9	716.0	713.2	711.8
42.5°	794.3	791.5	785.8	779.4	772.3	763.7	755.2	750.9	750.2
45°	831.3	827.8	822.1	813.6	804.3	795.8	787.9	783.7	781.5
47.5°	861.2	857.0	849.9	842.0	831.3	821.4	813.6	809.3	806.4
50°	883.3	879.7	871.9	862.0	851.3	839.9	832.1	827.1	824.9
52.5°	897.5	892.6	884.0	873.3	861.2	849.9	840.6	834.9	832.8
54°	900.4	894.7	885.4	874.1	861.2	849.1	840.6	834.2	832.1
55°	899.0	893.3	883.3	872.6	859.1	847.0	837.8	831.3	829.2
57.5°	884.0	877.6	868.4	857.0	842.7	830.6	822.1	815.0	812.8
60°	852.0	846.3	835.6	825.7	811.4	799.3	790.1	782.9	780.8
62.5°	802.9	797.9	788.6	778.7	763.7	753.1	743.8	739.5	733.8
65°	737.4	733.8	724.6	712.5	701.8	691.1	681.9	679.0	675.5
67.5°	659.1	654.1	650.6	638.5	629.9	620.0	610.7	605.0	603.6
70°	566.6	564.4	560.9	549.5	544.5	536.0	529.6	524.6	523.2
72.5°	466.9	464.8	464.1	458.4	452.0	444.1	441.3	437.0	436.3
75°	363.0	361.6	363.0	358.7	356.6	354.5	353.0	353.0	350.9
77.5°	262.6	264.8	265.5	265.5	266.9	266.9	268.3	266.2	264.1
80°	178.7	180.8	180.1	181.5	180.8	185.8	182.2	185.1	182.2
82.5°	107.5	110.3	110.3	110.3	113.2	112.5	112.5	113.9	113.2
85°	52.7	53.4	52.7	52.0	55.5	54.8	54.8	54.1	54.8
87.5°	15.7	14.2	14.9	13.5	14.9	12.8	14.2	14.2	14.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)