

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: P197737

Luminaire Tested: **TT-C4-LED-E1-WQ-LWR-LW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197737
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-C4-LED-E1-WQ-LWR-LW-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH LumaWatt WIRELESS SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4717.4 lumens
Efficiency: N/A
Efficacy: 81.3 lumens/watt
Luminous Opening: Circular (Dia: 1.12' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 58
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



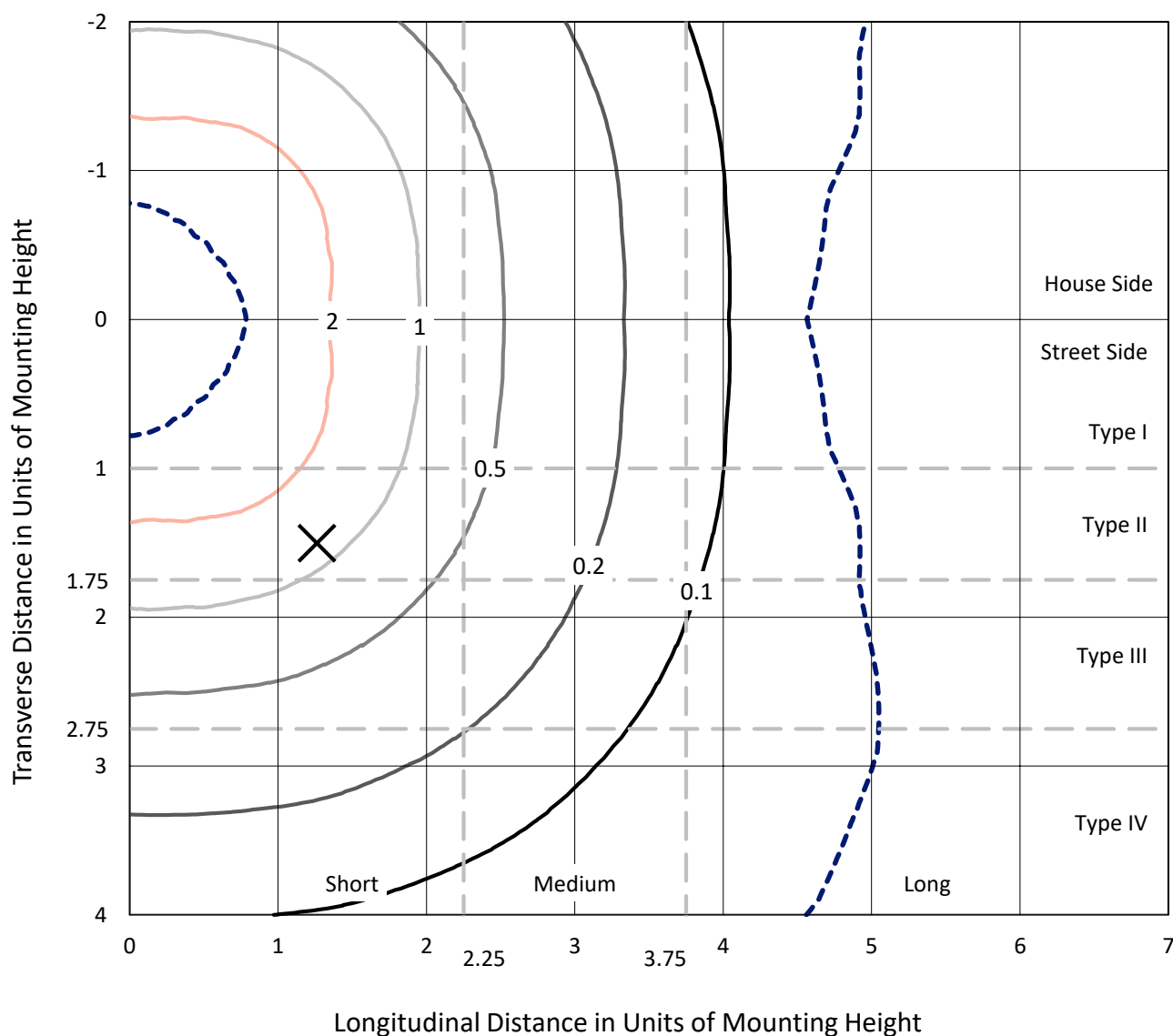
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

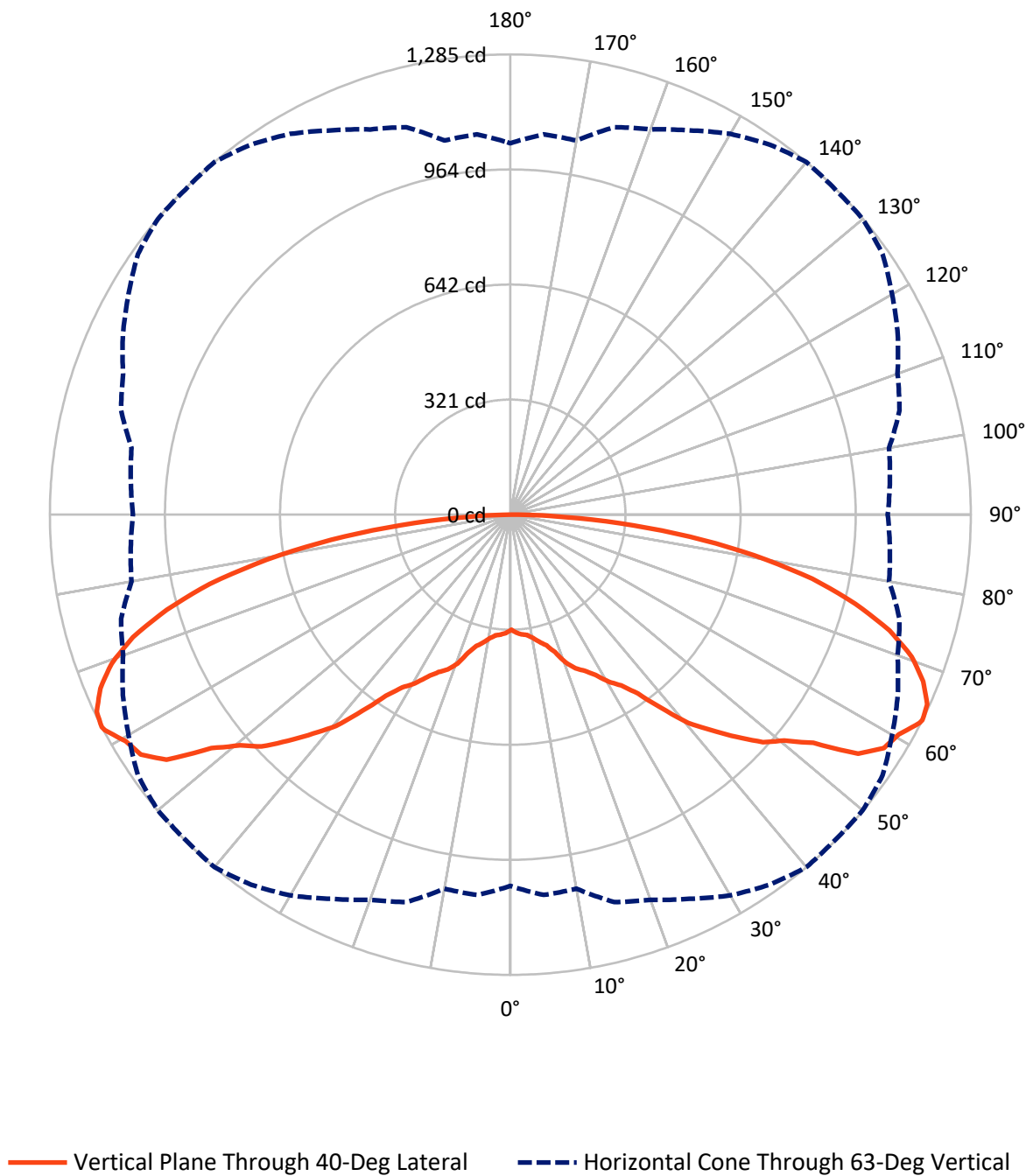


Based on 10 foot mounting height. Maximum calculated value = 3.6 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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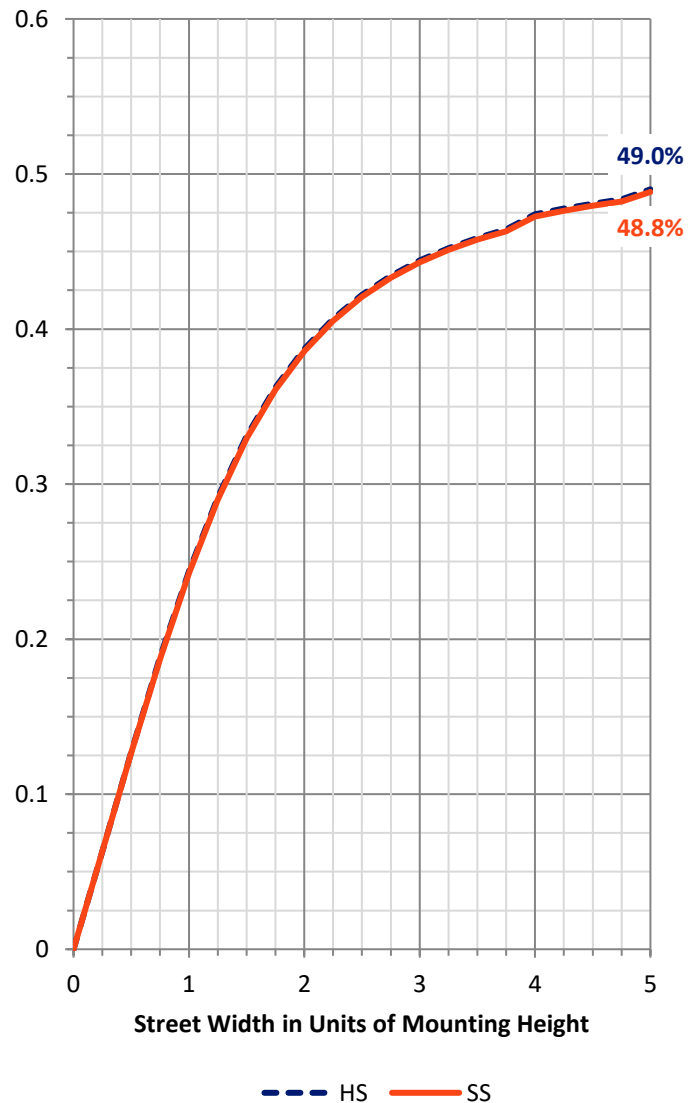
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2358.7	0.0	2358.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2358.7	0.0	2358.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	4717.4	0.0	4717.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.4	0.7
10°-20°	110.2	2.3
20°-30°	224.1	4.7
30°-40°	386.2	8.2
40°-50°	650.5	13.8
50°-60°	957.9	20.3
60°-70°	1139.1	24.1
70°-80°	922.1	19.5
80°-90°	295.0	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°	4717.4	100.0
0°-180°	4717.4	100.0

Coefficient of Utilization



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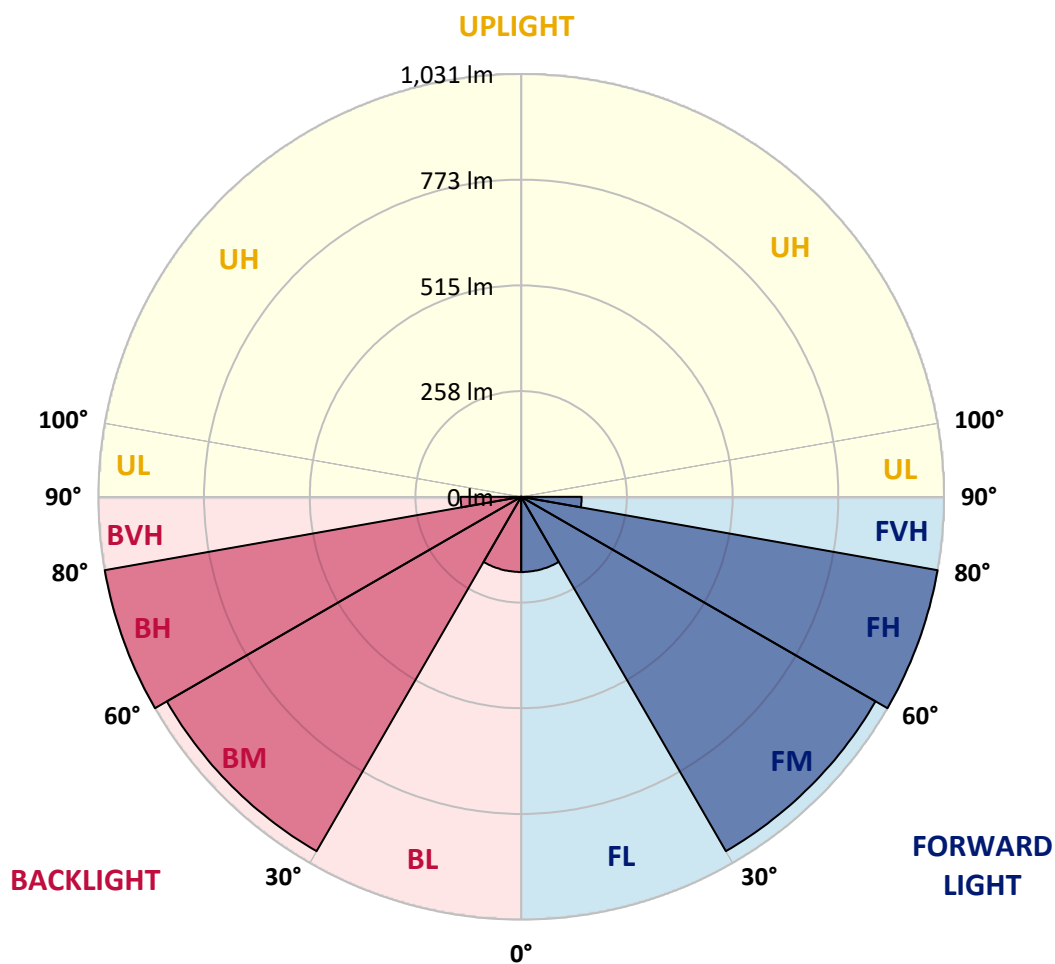
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	183.3	3.9			
FM	(30°-60°)	997.3	21.1			
FH	(60°-80°)	1030.6	21.8			G1/1800
FVH	(80°-90°)	147.5	3.1			G2/225
BL	(0°-30°)	183.3	3.9	B1/500		
BM	(30°-60°)	997.3	21.1	B1/1000		
BH	(60°-80°)	1030.6	21.8	B3/2500		G1/1800
BVH	(80°-90°)	147.5	3.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G2

Type V Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2
2.5°	331.3	331.3	331.3	331.3	331.3	331.3	330.3	331.3	330.3	330.3	330.3
5°	337.7	337.7	337.7	337.7	336.7	336.7	335.8	335.8	335.8	334.9	335.8
7.5°	340.4	340.4	340.4	340.4	339.5	339.5	339.5	339.5	339.5	339.5	339.5
10°	346.7	346.7	347.6	348.5	350.3	350.3	350.3	351.3	350.3	350.3	350.3
12.5°	360.4	359.5	361.3	363.1	365.0	365.9	365.9	365.9	365.0	365.0	365.9
15°	379.6	377.7	378.7	379.6	380.5	381.4	381.4	380.5	378.7	378.7	378.7
17.5°	404.2	401.5	400.6	399.7	399.7	401.5	403.3	402.4	403.3	402.4	403.3
20°	433.5	431.6	431.6	431.6	432.5	436.2	439.9	441.7	440.8	438.9	441.7
22.5°	452.5	453.5	458.0	457.1	456.2	459.9	464.4	468.1	466.2	463.5	465.3
25°	473.6	473.6	479.9	482.7	479.9	479.9	481.8	484.5	482.7	480.9	482.7
27.5°	497.3	497.3	500.0	502.8	501.0	501.0	503.7	508.3	507.3	506.4	507.3
30°	525.6	522.0	519.2	523.8	528.4	529.3	532.0	539.3	541.1	540.2	542.1
32.5°	552.0	546.5	548.4	551.1	561.1	564.8	563.9	569.4	568.4	565.7	569.4
35°	577.6	584.0	587.6	593.1	596.8	601.3	601.3	611.4	613.2	610.5	613.2
37.5°	626.9	629.6	639.7	640.6	645.1	662.4	664.3	678.0	685.3	681.6	682.5
40°	694.4	693.5	700.8	711.7	720.9	742.7	749.1	758.2	764.6	761.9	765.5
42.5°	749.1	741.8	747.3	771.0	781.1	797.5	805.7	810.3	822.2	818.5	823.1
45°	788.4	791.1	798.4	822.2	828.6	842.2	861.3	869.6	885.1	880.5	883.3
47.5°	826.7	839.4	845.8	856.8	876.9	895.1	918.9	927.1	948.9	947.1	944.4
50°	876.9	886.9	894.2	902.4	929.9	959.9	980.0	983.6	990.9	985.5	994.6
52.5°	930.8	929.9	936.2	959.0	997.3	1009.2	1026.6	1042.9	1058.4	1063.9	1058.4
55°	1001.9	979.1	1005.6	1038.3	1054.8	1083.1	1125.1	1147.9	1178.0	1182.6	1173.4
57.5°	1031.1	1031.1	1058.4	1077.6	1107.8	1157.9	1202.7	1213.6	1229.1	1220.9	1230.1
60°	1027.5	1062.1	1062.1	1095.9	1145.1	1189.9	1206.3	1224.6	1245.5	1244.6	1244.6
62.5°	1032.1	1065.7	1056.6	1115.1	1145.1	1181.6	1218.2	1251.9	1281.1	1280.2	1279.3
63°	1036.6	1065.7	1060.3	1119.6	1144.2	1183.5	1227.3	1261.0	1284.8	1282.9	1283.8
65°	1050.2	1042.0	1074.9	1112.3	1140.5	1199.0	1235.4	1261.9	1278.4	1277.5	1277.5
67.5°	1024.7	1005.6	1052.0	1066.7	1120.6	1172.5	1200.8	1231.0	1242.7	1242.7	1240.9
70°	946.2	954.4	986.4	1010.1	1064.8	1111.4	1135.2	1173.4	1188.0	1188.0	1187.1
72.5°	866.8	880.5	902.4	936.2	988.2	1024.7	1053.0	1087.7	1106.8	1105.9	1105.9
75°	765.5	778.3	803.9	835.9	881.4	917.1	939.8	972.7	994.6	1002.8	993.7
77.5°	651.5	655.1	678.9	711.7	751.8	776.5	811.2	843.1	861.3	860.4	857.7
80°	512.8	517.4	537.5	574.8	596.8	626.0	657.9	675.2	690.7	690.7	688.9
82.5°	354.0	364.0	384.1	408.8	431.6	457.1	474.5	491.8	504.6	503.7	501.0
85°	199.8	204.4	223.6	239.1	256.4	272.8	284.7	295.6	306.6	306.6	304.8
87.5°	60.2	53.8	64.8	71.1	80.3	88.5	94.0	104.9	112.2	104.0	104.0
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°	321.2	321.2	321.2	321.2	321.2	321.2	321.2	321.2
2.5°	331.3	331.3	331.3	331.3	331.3	331.3	331.3	331.3
5°	335.8	336.7	336.7	337.7	337.7	337.7	337.7	337.7
7.5°	339.5	339.5	339.5	339.5	340.4	340.4	340.4	340.4
10°	350.3	351.3	350.3	350.3	348.5	347.6	347.6	347.6
12.5°	365.9	366.8	366.8	365.0	363.1	361.3	360.4	359.5
15°	380.5	383.2	381.4	380.5	378.7	379.6	379.6	380.5
17.5°	403.3	404.2	401.5	399.7	398.8	400.6	402.4	403.3
20°	442.6	440.8	435.3	433.5	431.6	431.6	433.5	433.5
22.5°	467.2	462.6	458.9	457.1	457.1	457.1	454.4	450.7
25°	484.5	481.8	479.0	480.9	482.7	479.9	473.6	472.6
27.5°	508.3	502.8	501.9	501.0	501.9	500.0	499.1	495.5
30°	539.3	532.0	530.2	528.4	522.9	521.0	522.9	525.6
32.5°	568.4	563.9	565.7	562.1	552.0	548.4	550.2	549.3
35°	610.5	602.2	602.2	594.9	592.2	591.3	584.0	577.6
37.5°	677.0	666.1	663.3	646.9	639.7	641.5	631.5	624.2
40°	758.2	750.0	742.7	724.5	714.5	701.7	695.3	695.3
42.5°	812.1	806.6	796.6	783.8	772.8	750.9	742.7	747.3
45°	871.4	864.1	843.1	830.4	820.3	804.8	795.7	786.5
47.5°	931.7	921.6	897.0	880.5	856.8	852.2	842.2	829.5
50°	984.6	980.9	963.5	936.2	906.1	898.8	889.7	877.8
52.5°	1049.3	1027.5	1012.9	1001.0	967.2	943.5	930.8	936.2
55°	1155.2	1127.9	1090.4	1053.0	1045.7	1017.4	985.5	1002.8
57.5°	1216.4	1200.8	1172.5	1113.2	1084.0	1064.8	1043.8	1028.4
60°	1231.0	1202.7	1196.3	1151.5	1105.0	1064.8	1073.1	1036.6
62.5°	1259.2	1220.9	1185.3	1149.7	1121.5	1066.7	1064.8	1045.7
63°	1268.3	1230.1	1192.6	1149.7	1124.2	1073.1	1063.0	1053.0
65°	1266.5	1233.7	1205.4	1149.7	1111.4	1091.3	1042.0	1064.8
67.5°	1231.9	1204.5	1171.6	1133.3	1069.4	1053.9	1019.3	1023.8
70°	1176.2	1140.5	1109.6	1074.0	1022.9	987.3	966.3	948.9
72.5°	1089.5	1057.5	1024.7	991.9	946.2	903.4	888.7	869.6
75°	974.5	943.5	913.4	882.4	839.4	801.2	785.6	771.9
77.5°	843.1	816.7	773.8	744.5	720.0	678.9	664.3	649.6
80°	672.5	659.7	628.7	590.4	577.6	537.5	526.5	507.3
82.5°	489.1	476.3	451.6	425.2	409.7	388.7	370.4	357.7
85°	298.4	284.7	271.9	248.1	239.1	223.6	209.0	201.7
87.5°	107.7	96.7	86.7	75.7	70.2	59.3	57.4	52.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)