

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: P197761

Luminaire Tested: **TT-C4-LED-E1-WQ-MS/DIM-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197761
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115468)
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-MS/DIM-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH DIMMING OCCUPANCY SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5049.4 lumens
Efficiency: N/A
Efficacy: 87.1 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



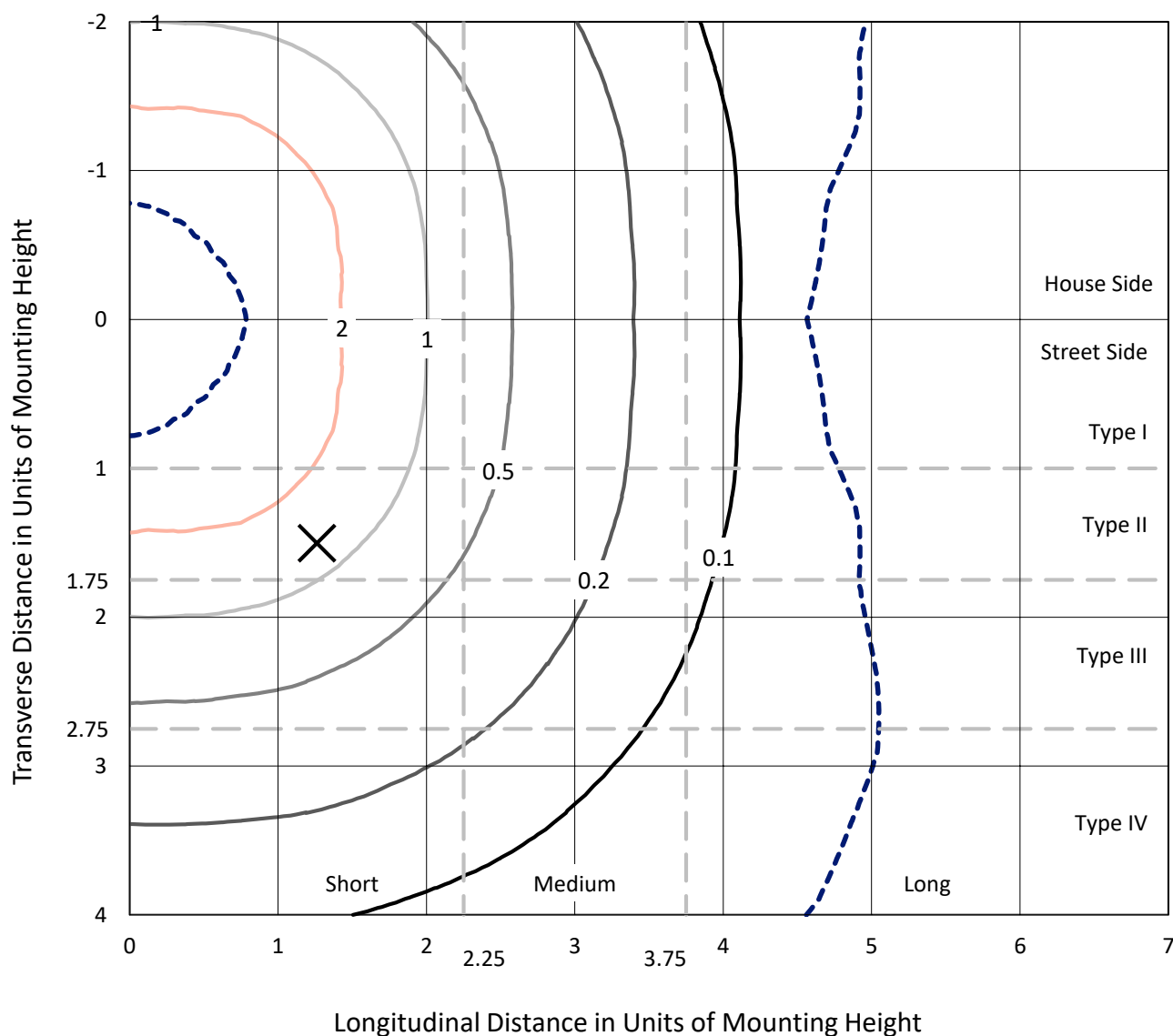
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

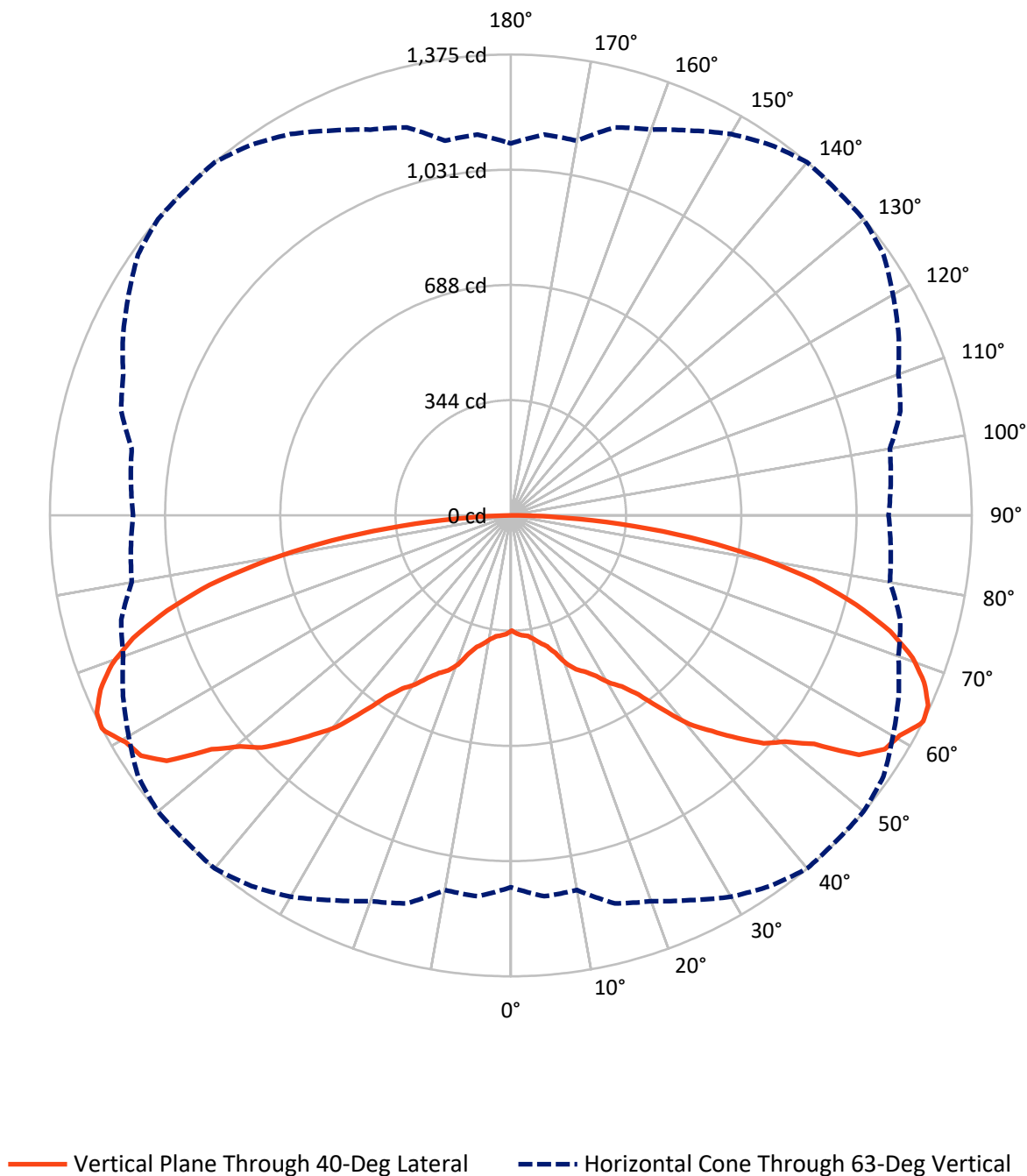


Based on 10 foot mounting height. Maximum calculated value = 3.9 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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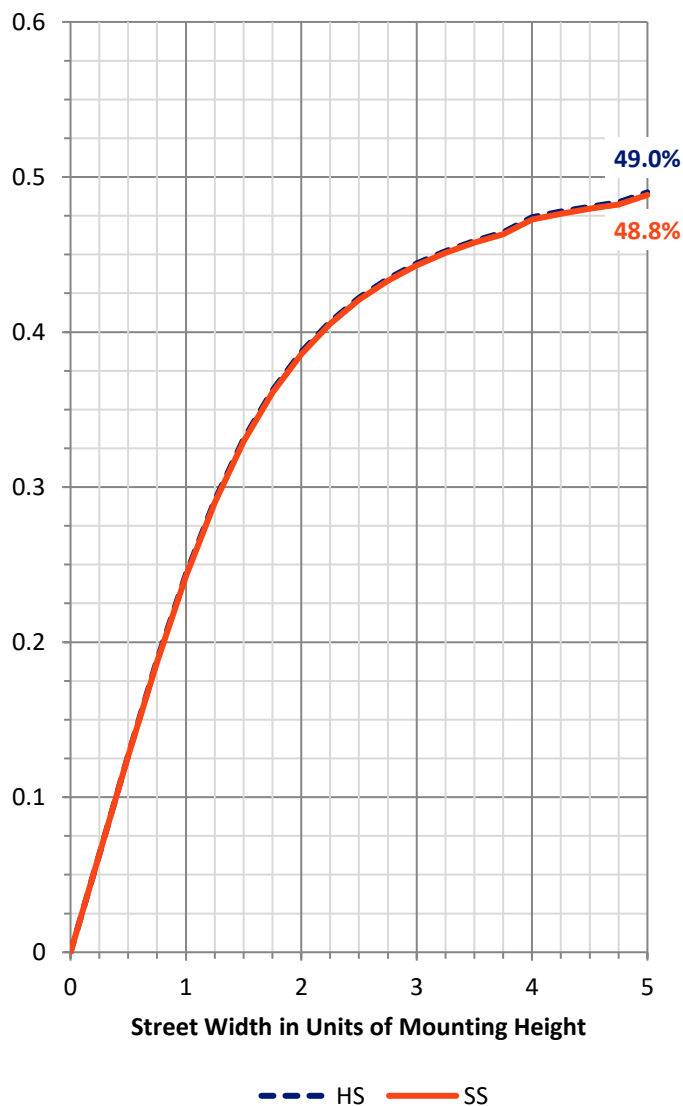
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2524.7	0.0	2524.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2524.7	0.0	2524.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	5049.4	0.0	5049.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.7	0.7
10°-20°	118.0	2.3
20°-30°	239.8	4.7
30°-40°	413.3	8.2
40°-50°	696.3	13.8
50°-60°	1025.3	20.3
60°-70°	1219.2	24.1
70°-80°	987.0	19.5
80°-90°	315.8	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°	5049.4	100.0
0°-180°	5049.4	100.0

Coefficient of Utilization



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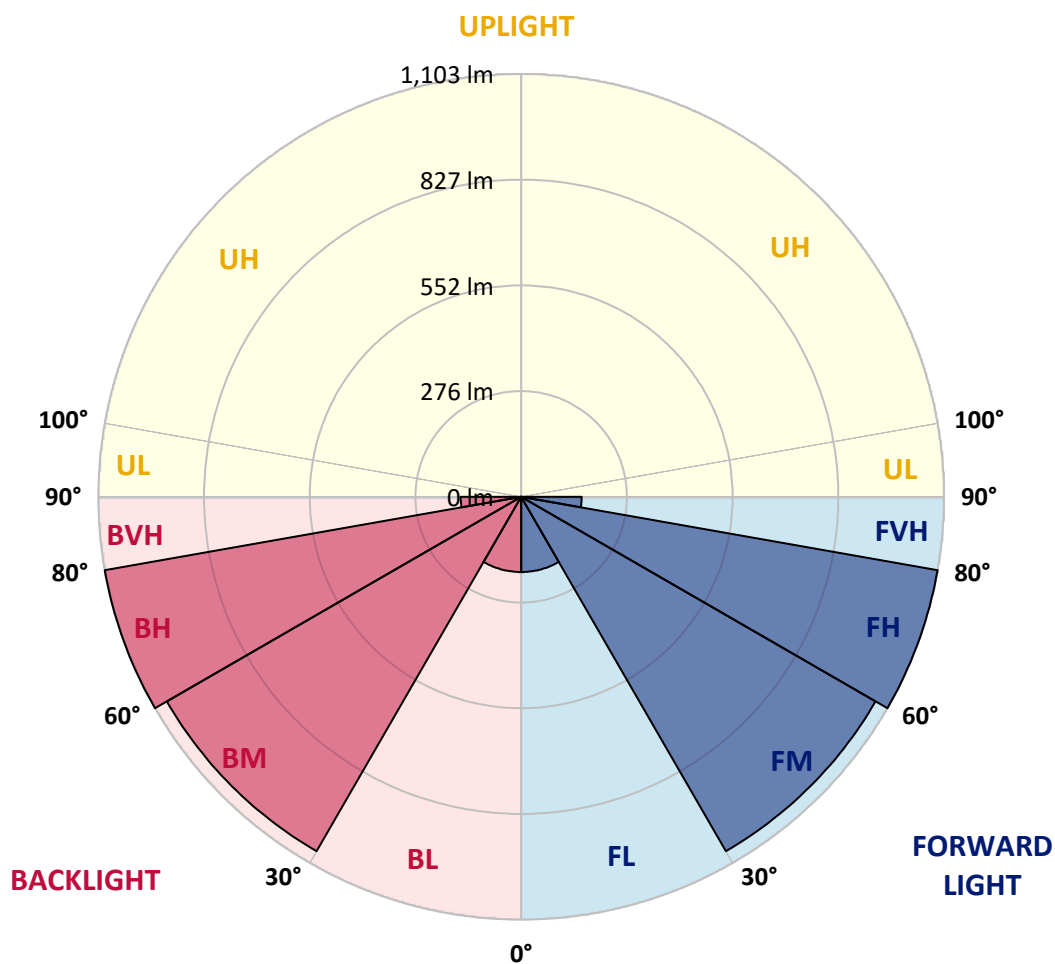
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	196.2	3.9			
FM	(30°-60°)	1067.5	21.1			
FH	(60°-80°)	1103.1	21.8			G1/1800
FVH	(80°-90°)	157.9	3.1			G2/225
BL	(0°-30°)	196.2	3.9	B1/500		
BM	(30°-60°)	1067.5	21.1	B2/2500		
BH	(60°-80°)	1103.1	21.8	B3/2500		G1/1800
BVH	(80°-90°)	157.9	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°	343.8	343.8	343.8	343.8	343.8	343.8	343.8	343.8	343.8	343.8	343.8
2.5°	354.5	354.5	354.5	354.5	354.5	354.5	353.5	354.5	353.5	353.5	353.5
5°	361.3	361.3	361.3	361.3	360.4	360.4	359.4	359.4	359.4	358.4	359.4
7.5°	364.3	364.3	364.3	364.3	363.3	363.3	363.3	363.3	363.3	363.3	363.3
10°	371.1	371.1	372.1	373.1	375.0	375.0	375.0	376.0	375.0	375.0	375.0
12.5°	385.8	384.8	386.8	388.7	390.7	391.6	391.6	391.6	390.7	390.7	391.6
15°	406.3	404.4	405.3	406.3	407.3	408.3	408.3	407.3	405.3	405.3	405.3
17.5°	432.7	429.8	428.8	427.8	427.8	429.8	431.7	430.8	431.7	430.8	431.7
20°	463.9	461.9	461.9	461.9	462.9	466.8	470.7	472.7	471.7	469.8	472.7
22.5°	484.4	485.4	490.3	489.3	488.3	492.2	497.1	501.0	499.1	496.2	498.1
25°	506.9	506.9	513.8	516.7	513.8	513.8	515.7	518.6	516.7	514.7	516.7
27.5°	532.3	532.3	535.3	538.2	536.2	536.2	539.2	544.0	543.1	542.1	543.1
30°	562.5	558.6	555.7	560.6	565.5	566.5	569.4	577.2	579.2	578.2	580.1
32.5°	590.9	585.0	587.0	589.9	600.7	604.6	603.6	609.5	608.5	605.6	609.5
35°	618.3	625.1	629.0	634.9	638.8	643.6	643.6	654.3	656.3	653.4	656.3
37.5°	671.0	673.9	684.7	685.6	690.5	709.1	711.0	725.7	733.5	729.6	730.6
40°	743.2	742.2	750.1	761.8	771.6	795.0	801.9	811.6	818.5	815.6	819.5
42.5°	801.9	794.1	799.9	825.3	836.1	853.6	862.4	867.3	880.0	876.1	881.0
45°	843.8	846.7	854.6	880.0	886.8	901.5	922.0	930.8	947.3	942.5	945.4
47.5°	884.9	898.6	905.4	917.1	938.6	958.1	983.5	992.3	1015.8	1013.8	1010.9
50°	938.6	949.3	957.1	965.9	995.3	1027.5	1048.9	1052.8	1060.7	1054.8	1064.6
52.5°	996.2	995.3	1002.1	1026.5	1067.5	1080.2	1098.8	1116.4	1133.0	1138.8	1133.0
55°	1072.4	1047.9	1076.3	1111.5	1129.1	1159.3	1204.3	1228.7	1260.9	1265.8	1256.0
57.5°	1103.7	1103.7	1133.0	1153.4	1185.7	1239.4	1287.3	1299.0	1315.6	1306.8	1316.6
60°	1099.8	1136.9	1136.9	1173.0	1225.8	1273.6	1291.2	1310.7	1333.2	1332.3	1332.3
62.5°	1104.7	1140.7	1131.0	1193.5	1225.8	1264.8	1303.9	1340.0	1371.3	1370.3	1369.3
63°	1109.5	1140.7	1135.0	1198.4	1224.8	1266.7	1313.7	1349.7	1375.2	1373.2	1374.2
65°	1124.2	1115.4	1150.5	1190.6	1220.9	1283.4	1322.5	1350.7	1368.3	1367.3	1367.3
67.5°	1096.8	1076.3	1126.2	1141.7	1199.4	1255.0	1285.3	1317.6	1330.3	1330.3	1328.3
70°	1012.9	1021.6	1055.8	1081.2	1139.7	1189.6	1215.0	1256.0	1271.6	1271.6	1270.7
72.5°	927.9	942.5	965.9	1002.1	1057.7	1096.8	1127.1	1164.2	1184.7	1183.7	1183.7
75°	819.5	833.2	860.4	894.7	943.4	981.6	1006.0	1041.1	1064.6	1073.4	1063.6
77.5°	697.4	701.3	726.7	761.8	804.8	831.2	868.3	902.5	922.0	921.0	918.1
80°	548.9	553.7	575.3	615.3	638.8	670.0	704.2	722.8	739.4	739.4	737.4
82.5°	378.9	389.7	411.2	437.6	461.9	489.3	507.9	526.5	540.2	539.2	536.2
85°	213.9	218.8	239.3	255.9	274.4	292.0	304.7	316.5	328.2	328.2	326.2
87.5°	64.4	57.6	69.3	76.2	85.9	94.7	100.6	112.3	120.2	111.4	111.4
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°	343.8	343.8	343.8	343.8	343.8	343.8	343.8	343.8
2.5°	354.5	354.5	354.5	354.5	354.5	354.5	354.5	354.5
5°	359.4	360.4	360.4	361.3	361.3	361.3	361.3	361.3
7.5°	363.3	363.3	363.3	363.3	364.3	364.3	364.3	364.3
10°	375.0	376.0	375.0	375.0	373.1	372.1	372.1	372.1
12.5°	391.6	392.6	392.6	390.7	388.7	386.8	385.8	384.8
15°	407.3	410.2	408.3	407.3	405.3	406.3	406.3	407.3
17.5°	431.7	432.7	429.8	427.8	426.8	428.8	430.8	431.7
20°	473.7	471.7	465.9	463.9	461.9	461.9	463.9	463.9
22.5°	500.1	495.2	491.3	489.3	489.3	489.3	486.4	482.5
25°	518.6	515.7	512.8	514.7	516.7	513.8	506.9	505.9
27.5°	544.0	538.2	537.2	536.2	537.2	535.3	534.3	530.4
30°	577.2	569.4	567.4	565.5	559.6	557.7	559.6	562.5
32.5°	608.5	603.6	605.6	601.6	590.9	587.0	588.9	588.0
35°	653.4	644.6	644.6	636.8	633.9	632.9	625.1	618.3
37.5°	724.7	713.0	710.1	692.5	684.7	686.6	675.9	668.0
40°	811.6	802.9	795.0	775.5	764.7	751.0	744.2	744.2
42.5°	869.2	863.4	852.6	839.0	827.3	803.8	795.0	799.9
45°	932.8	925.0	902.5	888.8	878.0	861.4	851.6	841.9
47.5°	997.2	986.5	960.1	942.5	917.1	912.2	901.5	887.8
50°	1053.8	1049.9	1031.4	1002.1	969.8	962.0	952.2	939.5
52.5°	1123.2	1099.8	1084.1	1071.4	1035.3	1009.9	996.2	1002.1
55°	1236.4	1207.2	1167.1	1127.1	1119.3	1089.0	1054.8	1073.4
57.5°	1301.9	1285.3	1255.0	1191.6	1160.3	1139.7	1117.4	1100.7
60°	1317.6	1287.3	1280.4	1232.6	1182.8	1139.7	1148.5	1109.5
62.5°	1347.8	1306.8	1268.7	1230.7	1200.4	1141.7	1139.7	1119.3
63°	1357.6	1316.6	1276.5	1230.7	1203.3	1148.5	1137.8	1127.1
65°	1355.6	1320.5	1290.2	1230.7	1189.6	1168.1	1115.4	1139.7
67.5°	1318.6	1289.2	1254.0	1213.1	1144.6	1128.1	1091.0	1095.9
70°	1258.9	1220.9	1187.7	1149.5	1094.9	1056.7	1034.4	1015.8
72.5°	1166.1	1132.0	1096.8	1061.6	1012.9	966.9	951.3	930.8
75°	1043.1	1009.9	977.7	944.4	898.6	857.5	840.9	826.3
77.5°	902.5	874.1	828.3	797.0	770.6	726.7	711.0	695.4
80°	719.8	706.2	672.9	632.0	618.3	575.3	563.5	543.1
82.5°	523.5	509.8	483.4	455.1	438.6	416.1	396.5	382.8
85°	319.4	304.7	291.0	265.6	255.9	239.3	223.7	215.9
87.5°	115.3	103.5	92.8	81.0	75.2	63.4	61.5	55.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)