

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: P197905

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197905
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115558)
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-SG-MS/DIM-8030
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS AND DIMMING OCCUPANCY SENSOR
Light Source: (160) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4774.8 lumens
Efficiency: N/A
Efficacy: 82.3 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): 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

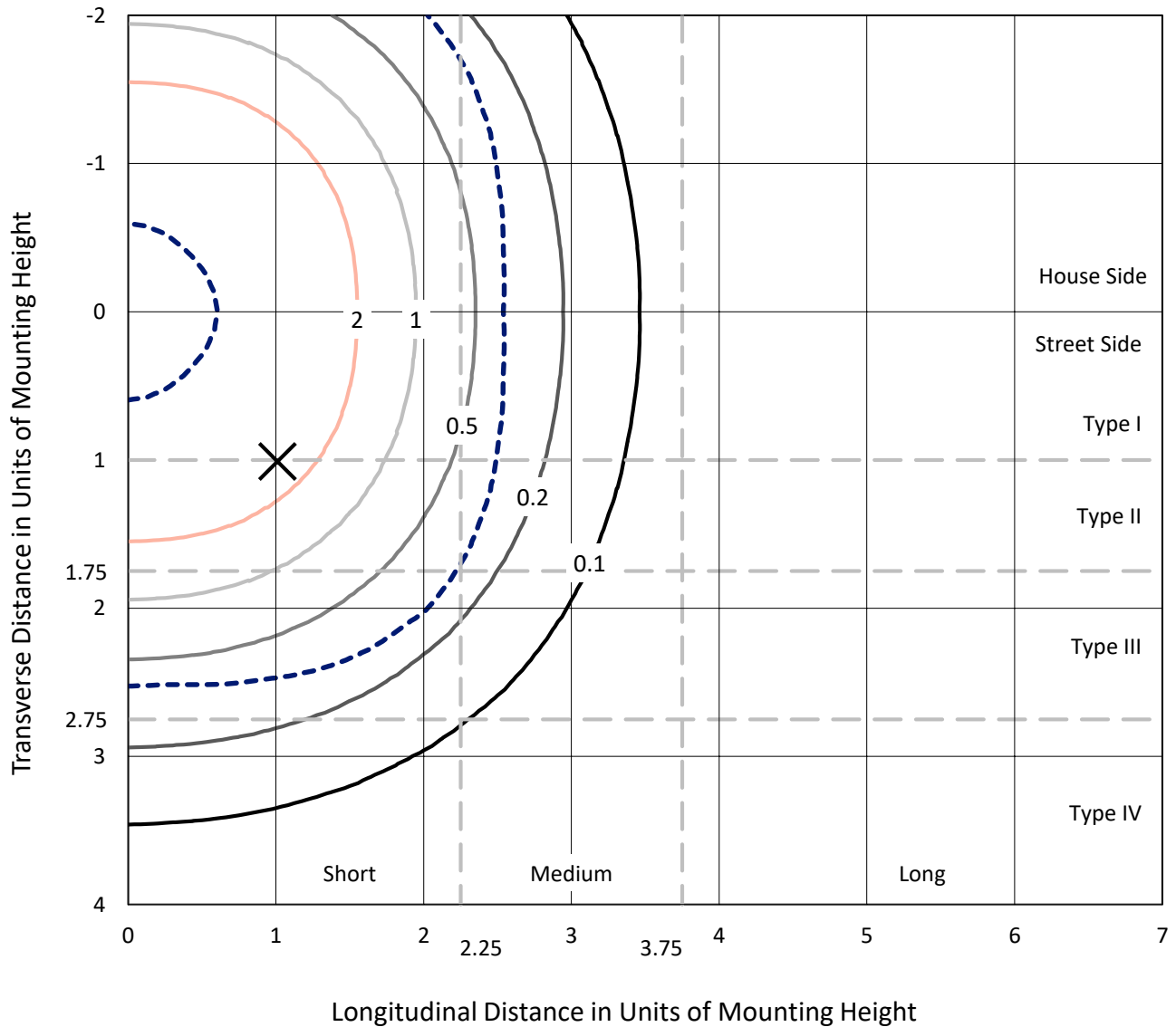


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

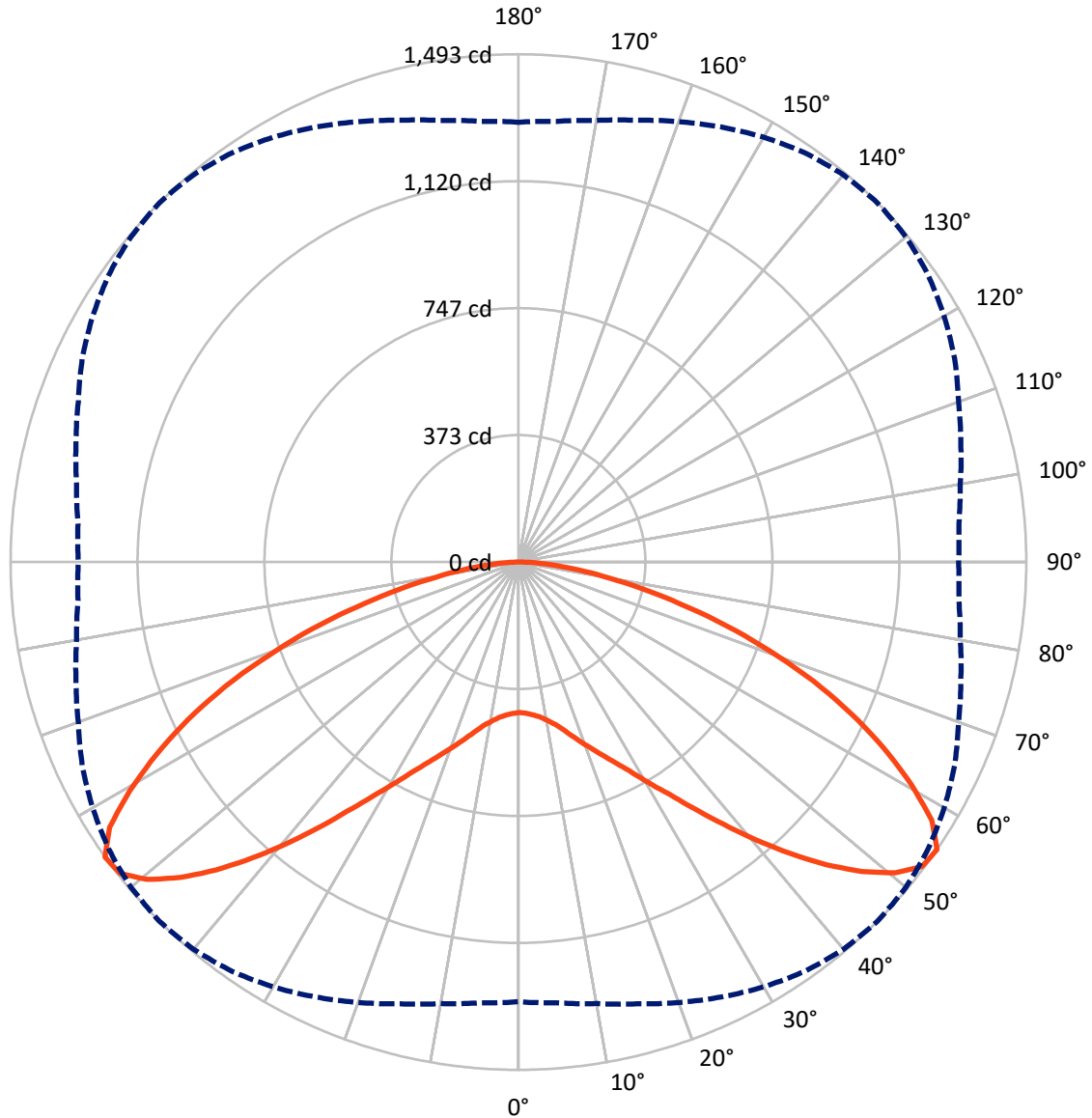


Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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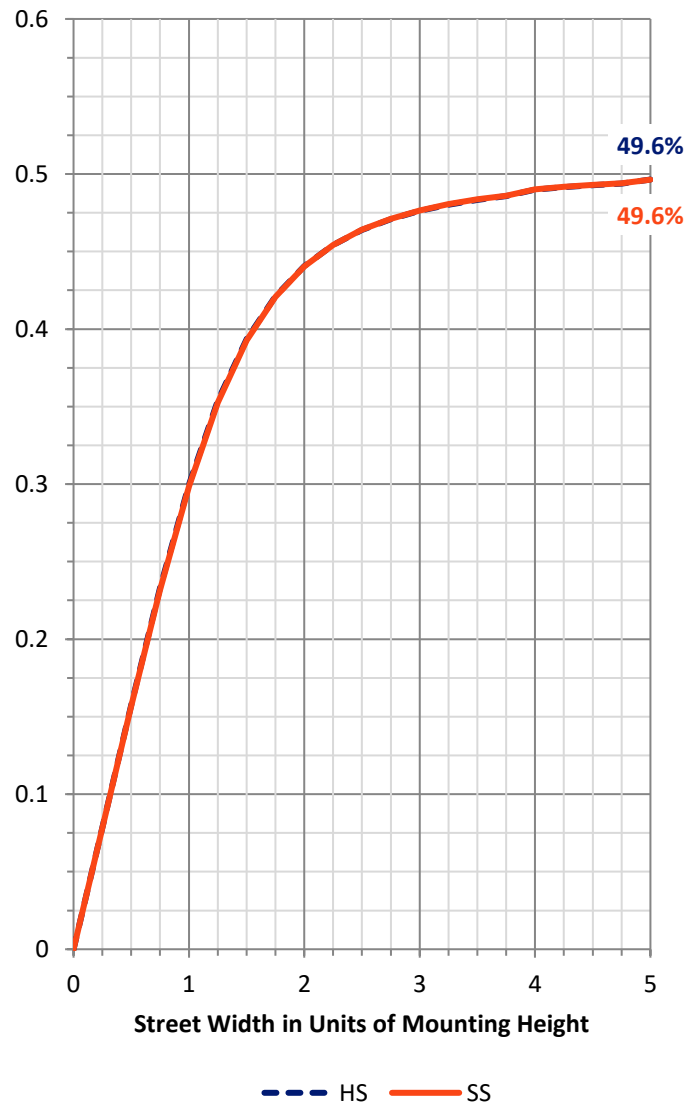
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2387.4	0.0	2387.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2387.4	0.0	2387.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	4774.8	0.0	4774.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.7	0.9
10°-20°	148.2	3.1
20°-30°	301.8	6.3
30°-40°	551.2	11.5
40°-50°	935.9	19.6
50°-60°	1218.9	25.5
60°-70°	985.8	20.6
70°-80°	484.4	10.1
80°-90°	104.8	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°	4774.8	100.0
0°-180°	4774.8	100.0



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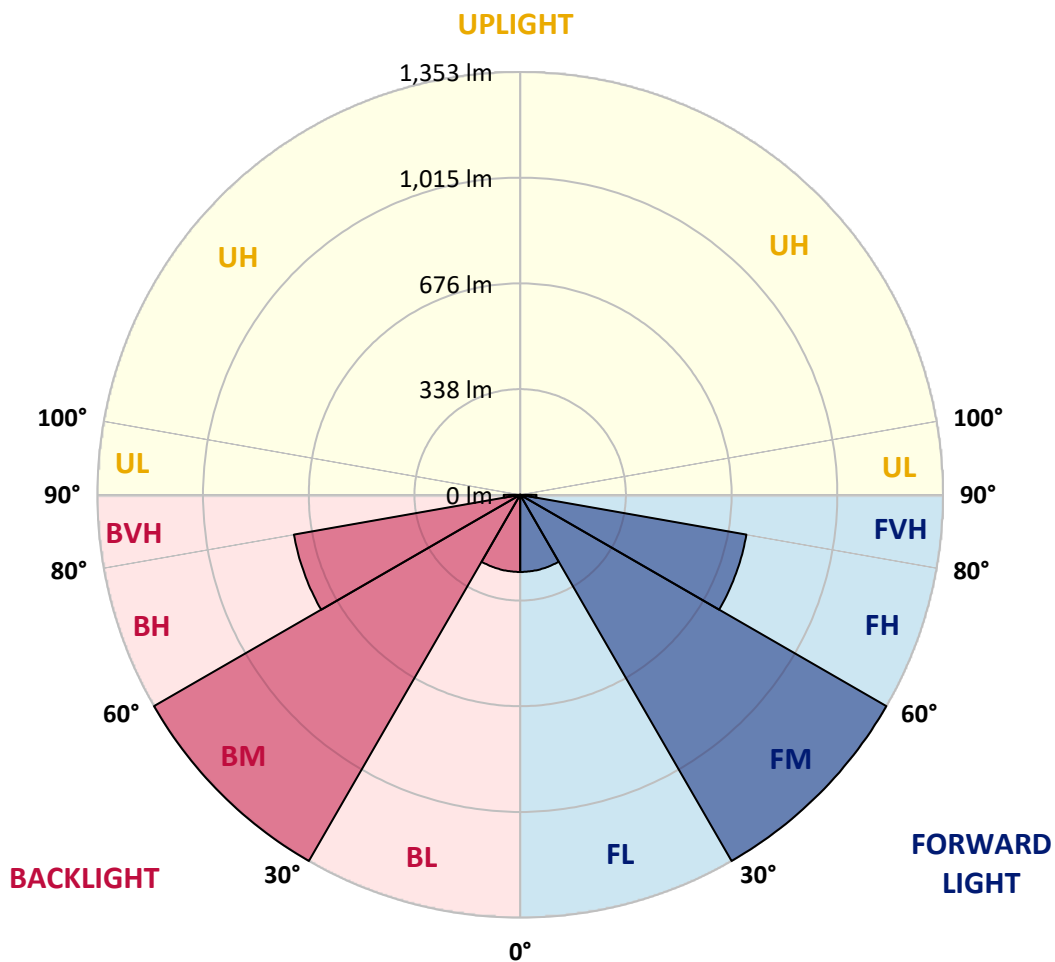
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	246.9	5.2			
FM	(30°-60°)	1353.0	28.3			
FH	(60°-80°)	735.1	15.4			G1/1800
FVH	(80°-90°)	52.4	1.1			G1/100
BL	(0°-30°)	246.9	5.2	B1/500		
BM	(30°-60°)	1353.0	28.3	B2/2500		
BH	(60°-80°)	735.1	15.4	B2/1000		G1/1800
BVH	(80°-90°)	52.4	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°	50°
0°	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4
2.5°	444.3	444.3	444.3	444.3	444.3	444.3	445.3	445.3	445.3	445.3	445.3
5°	450.2	450.2	450.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2	451.2
7.5°	459.0	458.0	459.0	459.0	459.0	460.0	460.0	459.0	460.0	460.0	460.0
10°	471.7	470.7	471.7	471.7	471.7	472.7	472.7	472.7	472.7	473.7	473.7
12.5°	490.3	489.3	490.3	491.3	490.3	491.3	491.3	491.3	491.3	491.3	491.3
15°	513.8	512.8	513.8	514.7	513.8	515.7	515.7	514.7	514.7	515.7	515.7
17.5°	542.0	540.1	541.0	542.0	542.0	544.0	544.0	543.0	544.0	544.9	544.0
20°	571.3	569.4	570.4	573.3	573.3	574.3	576.2	575.3	576.2	577.2	576.2
22.5°	603.6	602.6	603.6	606.5	606.5	607.5	610.4	610.4	610.4	611.4	610.4
25°	638.7	637.7	638.7	641.6	641.6	643.6	647.5	647.5	648.5	649.5	648.5
27.5°	679.8	678.8	680.7	683.7	684.7	687.6	692.5	693.5	694.4	695.4	693.5
30°	727.6	725.6	728.5	733.4	735.4	739.3	745.2	747.1	748.1	751.0	749.1
32.5°	782.3	780.4	784.3	790.1	793.1	798.9	806.8	808.7	811.6	813.5	810.7
35°	846.7	845.8	849.7	858.5	863.4	870.2	881.0	883.9	885.9	889.8	885.9
37.5°	918.0	917.0	923.9	933.7	942.5	953.2	964.9	969.8	972.8	977.7	972.8
40°	997.2	996.2	1004.9	1016.7	1027.4	1041.1	1055.8	1062.6	1068.5	1073.4	1067.5
42.5°	1078.3	1078.3	1089.0	1101.6	1117.3	1133.9	1150.5	1158.3	1168.1	1171.0	1164.2
45°	1156.4	1157.3	1168.1	1183.7	1206.1	1227.6	1246.2	1256.0	1266.7	1269.7	1260.9
47.5°	1230.6	1231.6	1241.3	1261.9	1287.3	1311.6	1334.1	1347.8	1358.5	1359.5	1352.7
50°	1291.1	1295.0	1307.7	1326.3	1352.7	1378.1	1405.4	1423.0	1433.7	1436.7	1429.8
52.5°	1314.6	1321.4	1336.1	1359.5	1389.7	1416.1	1446.4	1468.9	1481.5	1486.4	1480.7
55°	1293.0	1300.9	1318.5	1344.9	1378.1	1411.2	1442.5	1468.9	1486.4	1493.3	1487.4
57.5°	1245.2	1246.2	1263.8	1290.1	1320.4	1354.6	1384.9	1409.3	1425.9	1432.8	1431.8
60°	1162.2	1162.2	1178.9	1204.2	1227.6	1262.8	1288.3	1306.7	1318.5	1326.3	1324.3
62.5°	1050.9	1050.9	1065.5	1091.9	1115.3	1145.6	1170.1	1189.6	1197.3	1206.1	1208.1
65°	926.8	926.8	940.5	966.9	988.4	1015.7	1039.1	1057.7	1065.5	1076.3	1074.3
67.5°	795.0	794.1	806.8	829.1	849.7	875.1	897.6	915.1	923.9	936.6	927.8
70°	659.2	659.2	670.0	687.6	702.2	727.6	749.1	766.7	773.5	784.3	779.4
72.5°	530.3	529.3	538.1	551.8	563.5	586.0	598.7	618.3	624.0	638.7	630.9
75°	414.1	412.2	419.0	428.8	436.5	451.2	461.0	476.6	481.5	491.3	487.4
77.5°	311.6	310.6	313.5	320.4	326.2	337.9	341.8	349.6	353.5	363.3	355.5
80°	223.7	220.8	223.7	227.6	229.6	238.4	239.2	242.2	244.1	251.0	243.1
82.5°	150.4	146.5	148.4	151.3	151.3	156.2	157.2	156.2	160.1	162.1	158.2
85°	85.9	83.0	84.0	85.9	85.0	87.9	87.9	86.9	89.8	89.8	87.9
87.5°	28.4	26.4	27.4	28.4	28.4	29.3	30.3	29.3	31.3	31.3	29.3
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°	442.4	442.4	442.4	442.4	442.4	442.4	442.4	442.4
2.5°	445.3	445.3	445.3	445.3	445.3	445.3	445.3	445.3
5°	451.2	451.2	451.2	451.2	451.2	450.2	450.2	450.2
7.5°	460.0	460.0	460.0	460.0	460.0	459.0	459.0	459.0
10°	473.7	472.7	472.7	472.7	472.7	471.7	472.7	471.7
12.5°	491.3	492.2	492.2	491.3	492.2	490.3	490.3	490.3
15°	515.7	514.7	514.7	514.7	514.7	513.8	513.8	513.8
17.5°	543.0	543.0	542.0	542.0	541.0	540.1	540.1	540.1
20°	575.3	574.3	573.3	572.3	571.3	569.4	568.4	568.4
22.5°	608.5	607.5	606.5	605.6	604.6	602.6	600.7	600.7
25°	645.5	643.6	642.6	640.7	638.7	636.7	635.8	634.8
27.5°	690.5	688.6	685.6	682.7	678.8	677.8	675.9	675.9
30°	744.2	741.3	737.3	732.5	728.5	724.6	722.7	721.7
32.5°	806.8	802.9	796.0	790.1	783.3	779.4	776.5	774.5
35°	880.0	874.1	866.3	857.5	848.7	841.9	837.0	837.0
37.5°	965.9	957.1	945.4	934.6	921.9	914.1	908.2	904.4
40°	1059.7	1047.0	1032.3	1018.6	1004.0	993.3	984.5	985.5
42.5°	1152.5	1141.7	1124.1	1107.5	1089.0	1074.3	1063.6	1062.6
45°	1250.1	1236.4	1214.9	1193.5	1172.0	1154.4	1141.7	1139.7
47.5°	1340.9	1326.3	1300.9	1274.6	1251.1	1231.6	1217.9	1215.9
50°	1415.2	1397.6	1371.3	1342.9	1317.5	1296.0	1281.4	1277.5
52.5°	1463.1	1443.5	1415.2	1381.0	1353.7	1329.2	1311.6	1306.7
55°	1470.9	1445.5	1415.2	1377.1	1346.8	1319.4	1299.9	1294.0
57.5°	1417.1	1389.7	1362.5	1329.2	1298.9	1269.7	1254.0	1246.2
60°	1312.6	1291.1	1268.7	1238.4	1214.0	1186.7	1174.0	1170.1
62.5°	1192.5	1174.0	1153.4	1122.2	1101.6	1077.3	1065.5	1060.7
65°	1063.6	1042.1	1022.5	997.2	974.7	954.2	937.6	935.6
67.5°	920.9	898.6	881.9	859.5	837.0	817.4	806.8	800.9
70°	770.6	752.0	735.4	711.0	696.4	677.8	670.0	664.1
72.5°	621.1	610.4	589.9	574.3	557.7	543.0	538.1	532.2
75°	480.5	467.8	452.2	442.4	429.8	422.0	418.0	414.1
77.5°	352.5	341.8	333.1	329.2	323.3	315.5	312.6	309.6
80°	244.1	239.2	233.5	232.5	228.6	222.7	221.7	220.8
82.5°	158.2	155.3	153.3	153.3	151.3	147.4	146.5	146.5
85°	87.9	86.9	87.9	86.9	85.0	83.0	83.0	83.0
87.5°	29.3	29.3	30.3	31.3	28.4	28.4	27.4	27.4
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)