

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: P197595

Luminaire Tested: **TT-C4-LED-E1-5MQ-PM-LWR-LW-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P197595  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115393)  
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-E1-5MQ-PM-LWR-LW-7050  
Description: TOPTIER LED AREA/SITE LUMINAIRE  
MEDIUM DISTRIBUTION WITH LumaWatt WIRELESS SENSOR  
Light Source: (160) 5000K CCT, 70 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6531.9 lumens  
Efficiency: N/A  
Efficacy: 112.6 lumens/watt  
Luminous Opening: Circular (Dia: 1.12' x H: 0')  
IES Classification: Type V - Short - Full Cutoff  
BUG Rating: B3 - U0 - G2

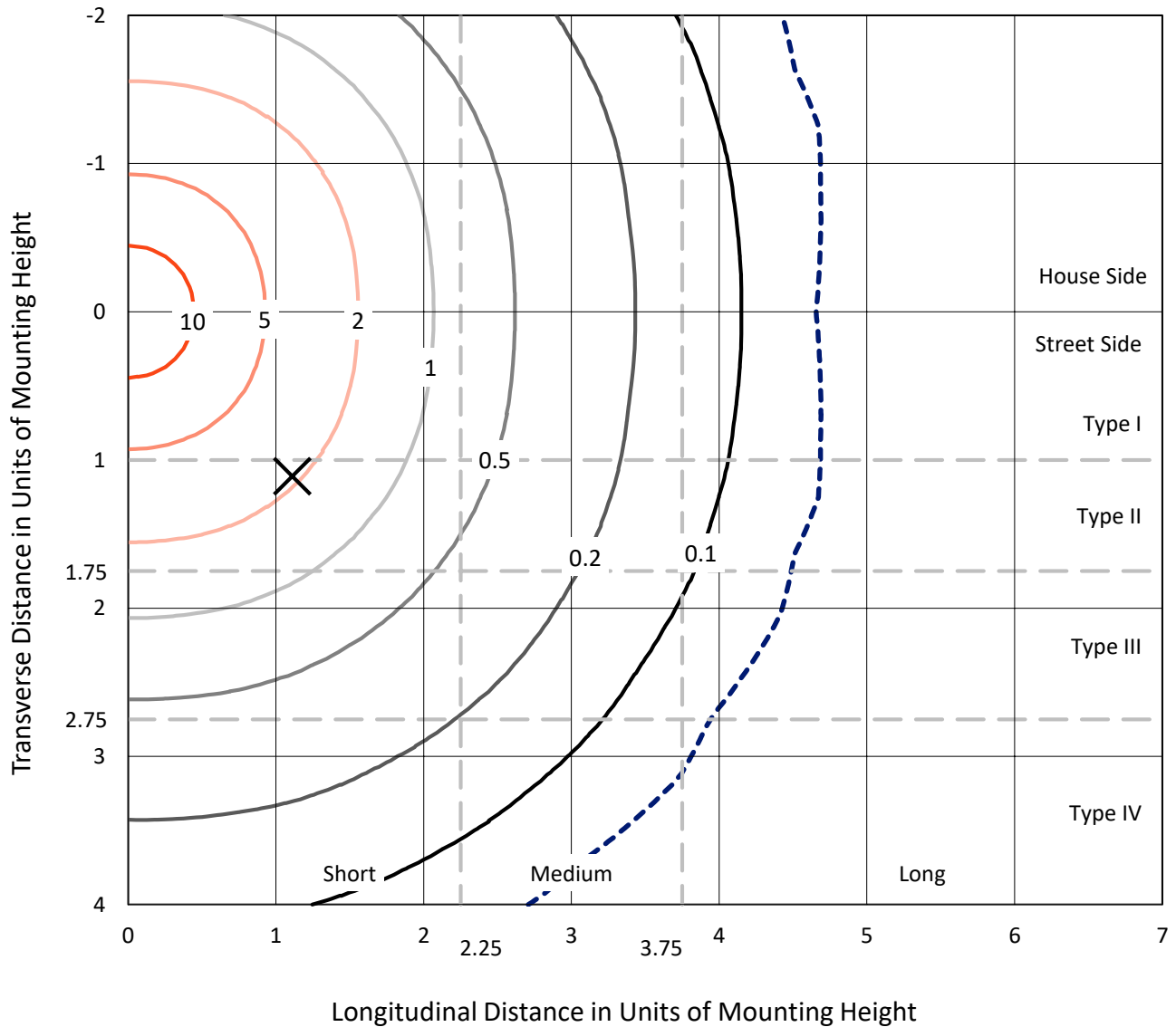
Input Watts (W): 58  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

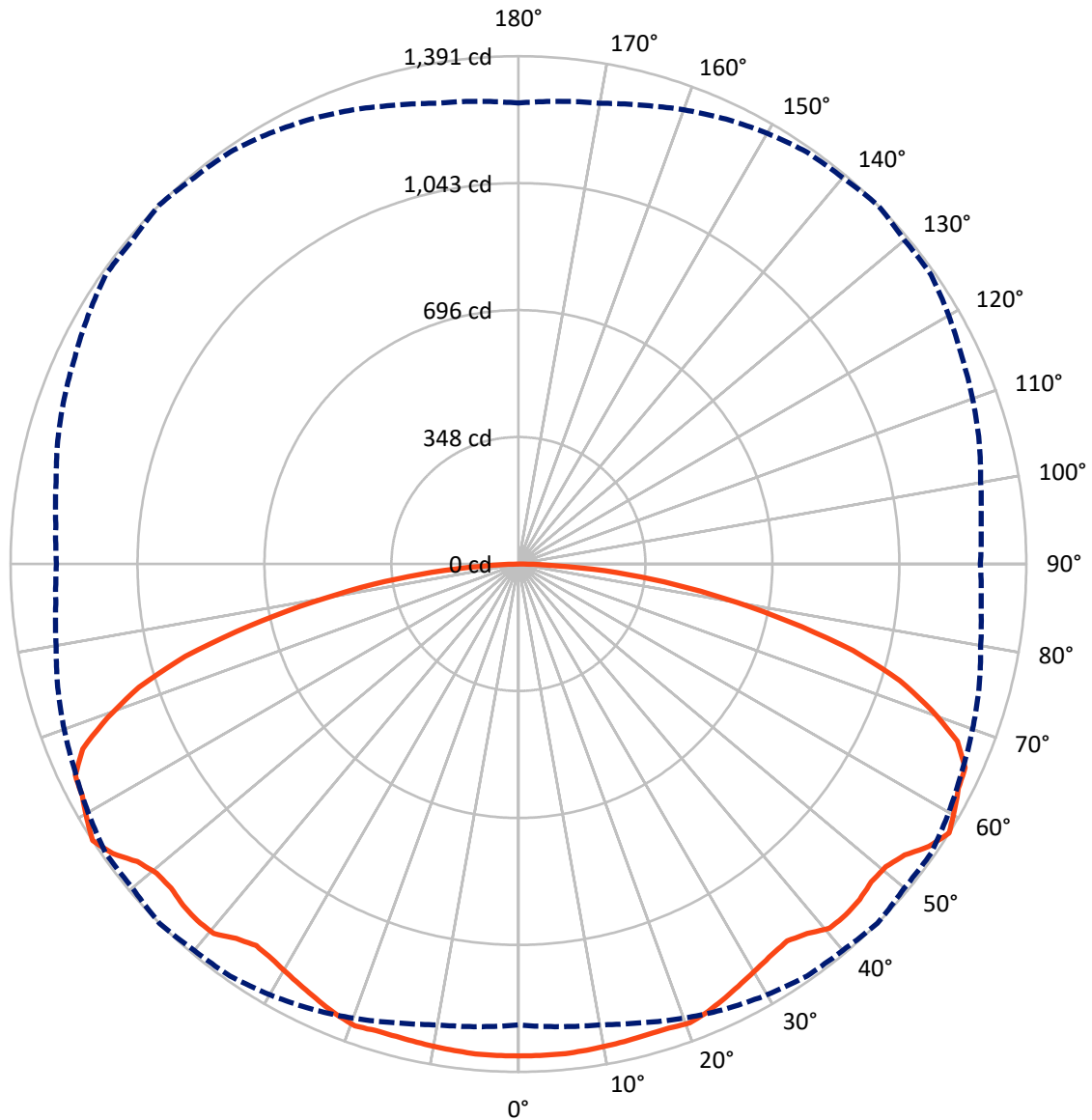
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.5 fc  
 Type V - Short - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral    - - - Horizontal Cone Through 57.5-Deg Vertical

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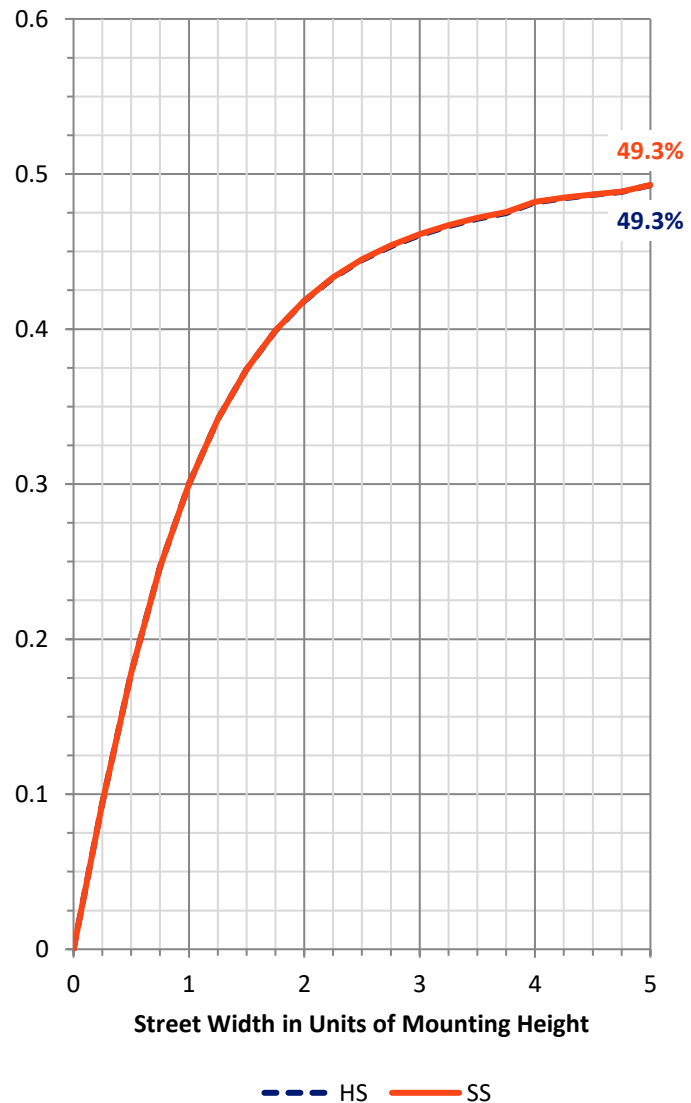
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3266.0	0.0	3266.0
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	3266.0	0.0	3266.0
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	6531.9	0.0	6531.9
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	128.3	2.0
10°-20°	378.7	5.8
20°-30°	606.6	9.3
30°-40°	798.5	12.2
40°-50°	994.5	15.2
50°-60°	1171.5	17.9
60°-70°	1245.5	19.1
70°-80°	934.0	14.3
80°-90°	274.3	4.2
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°	6531.9	100.0
0°-180°	6531.9	100.0



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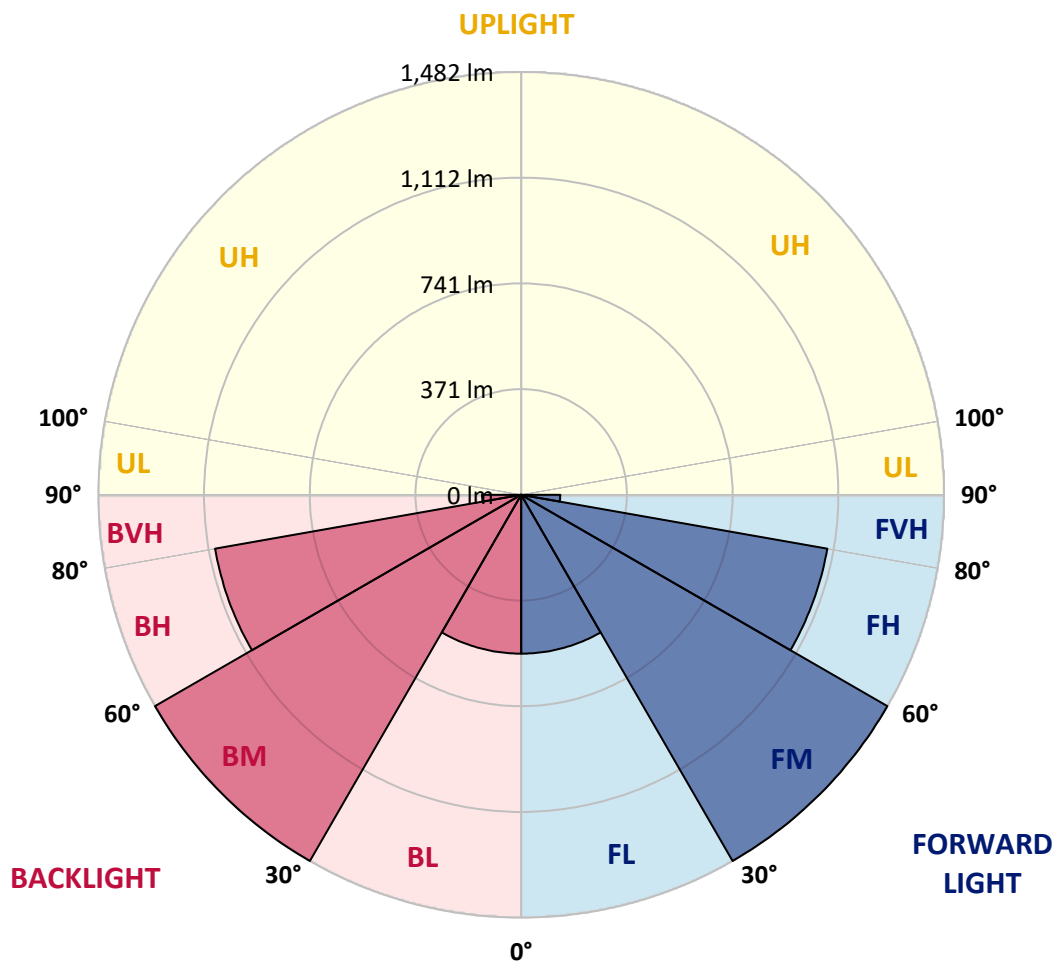
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	556.8	8.5			
FM	(30°-60°)	1482.3	22.7			
FH	(60°-80°)	1089.7	16.7			G1/1800
FVH	(80°-90°)	137.1	2.1			G2/225
BL	(0°-30°)	556.8	8.5	B2/1000		
BM	(30°-60°)	1482.3	22.7	B2/2500		
BH	(60°-80°)	1089.7	16.7	B3/2500		G1/1800
BVH	(80°-90°)	137.1	2.1			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°	1347.4	1347.4	1347.4	1347.4	1347.4	1347.4	1347.4	1347.4	1347.4	1347.4	1347.4
2.5°	1346.0	1346.0	1346.0	1347.4	1347.4	1347.4	1347.4	1347.4	1347.4	1347.4	1347.4
5°	1346.0	1346.0	1346.0	1346.0	1346.0	1346.0	1347.4	1347.4	1347.4	1347.4	1347.4
7.5°	1343.3	1343.3	1343.3	1343.3	1343.3	1344.6	1344.6	1344.6	1344.6	1344.6	1344.6
10°	1340.5	1340.5	1340.5	1340.5	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9	1341.9
12.5°	1337.8	1337.8	1336.4	1337.8	1337.8	1337.8	1339.2	1339.2	1339.2	1339.2	1339.2
15°	1332.3	1332.3	1333.7	1333.7	1335.1	1335.1	1335.1	1335.1	1336.4	1336.4	1336.4
17.5°	1329.6	1329.6	1330.9	1332.3	1332.3	1333.7	1335.1	1335.1	1336.4	1336.4	1336.4
20°	1333.7	1333.7	1333.7	1335.1	1336.4	1337.8	1339.2	1340.5	1340.5	1341.9	1340.5
22.5°	1325.5	1325.5	1325.5	1326.8	1326.8	1326.8	1328.2	1329.6	1329.6	1330.9	1329.6
25°	1310.4	1310.4	1311.8	1311.8	1313.2	1313.2	1314.5	1314.5	1314.5	1315.9	1315.9
27.5°	1295.4	1294.0	1296.8	1296.8	1298.1	1298.1	1299.5	1300.9	1300.9	1300.9	1302.2
30°	1279.0	1279.0	1280.3	1280.3	1281.7	1283.1	1284.4	1285.8	1285.8	1287.2	1287.2
32.5°	1261.2	1262.6	1263.9	1265.3	1266.7	1269.4	1270.8	1272.1	1273.5	1274.9	1273.5
35°	1248.9	1250.2	1251.6	1254.3	1258.5	1261.2	1263.9	1266.7	1268.0	1268.0	1268.0
37.5°	1251.6	1253.0	1255.7	1261.2	1268.0	1272.1	1277.6	1281.7	1283.1	1284.4	1284.4
40°	1266.7	1269.4	1273.5	1280.3	1288.5	1295.4	1303.6	1307.7	1310.4	1311.8	1310.4
42.5°	1265.3	1269.4	1273.5	1281.7	1291.3	1298.1	1306.3	1310.4	1313.2	1314.5	1313.2
45°	1261.2	1263.9	1268.0	1276.2	1283.1	1292.6	1300.9	1305.0	1309.1	1310.4	1309.1
47.5°	1251.6	1251.6	1253.0	1261.2	1270.8	1283.1	1289.9	1296.8	1300.9	1300.9	1300.9
50°	1239.3	1244.8	1247.5	1258.5	1268.0	1279.0	1291.3	1300.9	1302.2	1303.6	1302.2
52.5°	1239.3	1240.7	1250.2	1257.1	1276.2	1292.6	1305.0	1314.5	1322.7	1324.1	1324.1
55°	1261.2	1263.9	1269.4	1285.8	1300.9	1325.5	1346.0	1354.2	1359.7	1365.1	1359.7
57.5°	1262.6	1272.1	1281.7	1300.9	1324.1	1344.6	1362.4	1377.5	1381.6	1391.1	1380.2
60°	1246.1	1248.9	1258.5	1281.7	1311.8	1333.7	1350.1	1363.8	1377.5	1372.0	1377.5
62.5°	1220.1	1227.0	1240.7	1258.5	1283.1	1309.1	1333.7	1337.8	1358.3	1352.8	1361.0
65°	1199.6	1205.1	1218.8	1244.8	1274.9	1291.3	1318.6	1335.1	1333.7	1344.6	1332.3
67.5°	1149.0	1153.1	1165.4	1191.4	1220.1	1244.8	1253.0	1279.0	1281.7	1296.8	1283.1
70°	1065.6	1075.2	1092.9	1117.6	1140.8	1161.3	1176.4	1190.1	1198.3	1201.0	1198.3
72.5°	961.6	976.7	990.3	1013.6	1036.9	1050.5	1060.1	1079.3	1084.7	1092.9	1090.2
75°	854.9	854.9	868.6	886.4	904.2	912.4	917.8	930.2	937.0	946.6	938.4
77.5°	708.6	716.8	729.1	744.1	741.4	745.5	745.5	752.3	749.6	756.4	761.9
80°	555.4	563.6	574.5	585.5	584.1	574.5	581.3	573.1	570.4	571.8	575.9
82.5°	396.7	402.2	411.7	418.6	418.6	411.7	414.5	406.3	409.0	402.2	407.6
85°	227.1	233.9	240.7	247.6	247.6	243.5	247.6	236.6	238.0	238.0	238.0
87.5°	56.1	61.6	64.3	68.4	65.7	72.5	76.6	69.8	71.1	68.4	72.5
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°	1347.4	1347.4	1347.4	1347.4	1347.4	1347.4	1347.4	1347.4
2.5°	1347.4	1346.0	1347.4	1347.4	1347.4	1347.4	1346.0	1346.0
5°	1347.4	1347.4	1347.4	1346.0	1346.0	1346.0	1346.0	1346.0
7.5°	1344.6	1344.6	1344.6	1343.3	1343.3	1343.3	1343.3	1343.3
10°	1341.9	1341.9	1340.5	1340.5	1340.5	1340.5	1340.5	1340.5
12.5°	1339.2	1339.2	1337.8	1337.8	1337.8	1337.8	1337.8	1336.4
15°	1336.4	1336.4	1335.1	1335.1	1333.7	1333.7	1332.3	1332.3
17.5°	1336.4	1335.1	1333.7	1332.3	1332.3	1330.9	1329.6	1329.6
20°	1340.5	1339.2	1337.8	1336.4	1335.1	1333.7	1333.7	1332.3
22.5°	1329.6	1328.2	1326.8	1326.8	1325.5	1325.5	1325.5	1324.1
25°	1315.9	1314.5	1314.5	1311.8	1311.8	1310.4	1310.4	1309.1
27.5°	1300.9	1299.5	1299.5	1298.1	1296.8	1295.4	1294.0	1294.0
30°	1285.8	1284.4	1284.4	1283.1	1280.3	1280.3	1279.0	1277.6
32.5°	1272.1	1272.1	1270.8	1268.0	1265.3	1263.9	1261.2	1261.2
35°	1268.0	1265.3	1262.6	1258.5	1254.3	1251.6	1250.2	1248.9
37.5°	1283.1	1279.0	1272.1	1268.0	1262.6	1257.1	1254.3	1251.6
40°	1309.1	1302.2	1295.4	1288.5	1280.3	1273.5	1268.0	1266.7
42.5°	1310.4	1306.3	1299.5	1291.3	1281.7	1273.5	1268.0	1266.7
45°	1306.3	1300.9	1292.6	1283.1	1276.2	1266.7	1262.6	1261.2
47.5°	1296.8	1291.3	1283.1	1269.4	1259.8	1253.0	1251.6	1251.6
50°	1302.2	1291.3	1277.6	1269.4	1259.8	1248.9	1244.8	1242.0
52.5°	1314.5	1303.6	1295.4	1277.6	1257.1	1247.5	1242.0	1237.9
55°	1354.2	1348.7	1324.1	1299.5	1284.4	1272.1	1266.7	1263.9
57.5°	1380.2	1361.0	1340.5	1324.1	1306.3	1285.8	1272.1	1265.3
60°	1366.5	1346.0	1336.4	1314.5	1277.6	1255.7	1247.5	1243.4
62.5°	1336.4	1336.4	1310.4	1276.2	1262.6	1243.4	1228.4	1222.9
65°	1335.1	1317.3	1291.3	1279.0	1246.1	1217.4	1202.4	1199.6
67.5°	1277.6	1253.0	1246.1	1218.8	1191.4	1165.4	1154.5	1149.0
70°	1190.1	1181.8	1161.3	1143.5	1118.9	1091.6	1076.5	1071.1
72.5°	1079.3	1065.6	1056.0	1041.0	1017.7	983.5	971.2	964.4
75°	928.8	922.0	922.0	905.5	883.7	863.1	861.8	859.0
77.5°	746.9	749.6	756.4	738.7	745.5	734.6	725.0	718.1
80°	567.7	580.0	581.3	585.5	589.6	574.5	567.7	559.5
82.5°	403.5	410.4	418.6	419.9	422.7	411.7	406.3	398.1
85°	238.0	242.1	249.0	249.0	249.0	239.4	236.6	229.8
87.5°	69.8	69.8	73.9	69.8	69.8	69.8	62.9	67.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)