

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: P197926

Luminaire Tested: **TT-C3-LED-E1-WQ-SG**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P197926
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P115543)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: TT-C3-LED-E1-WQ-SG
Description: TOPTIER LED PARKING GARAGE LUMINAIRE
WIDE DISTRIBUTION WITH SOFTENING GLASS LENS
Light Source: (168) 4000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5467.6 lumens
Efficiency: N/A
Efficacy: 121.5 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): 45
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



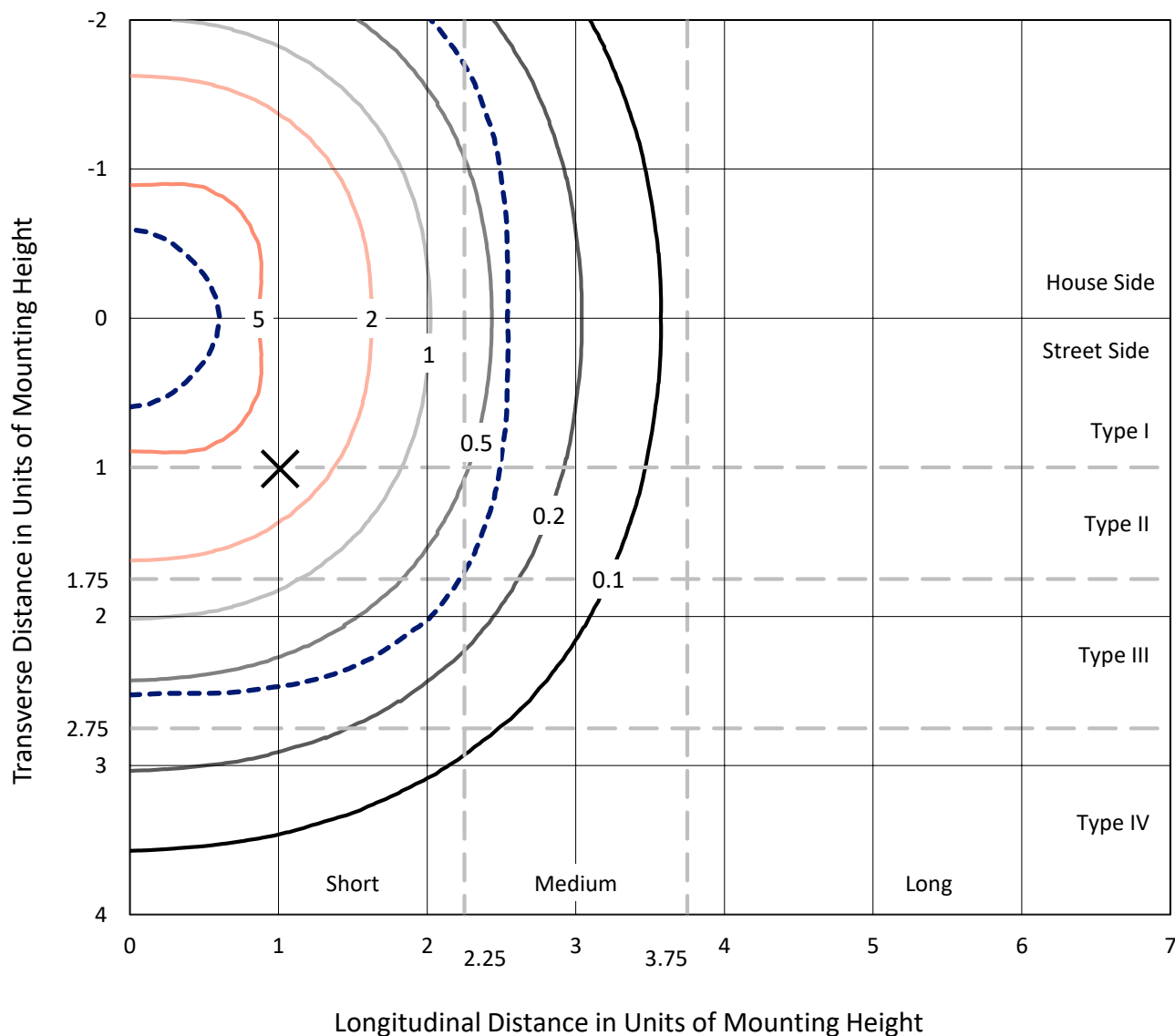
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

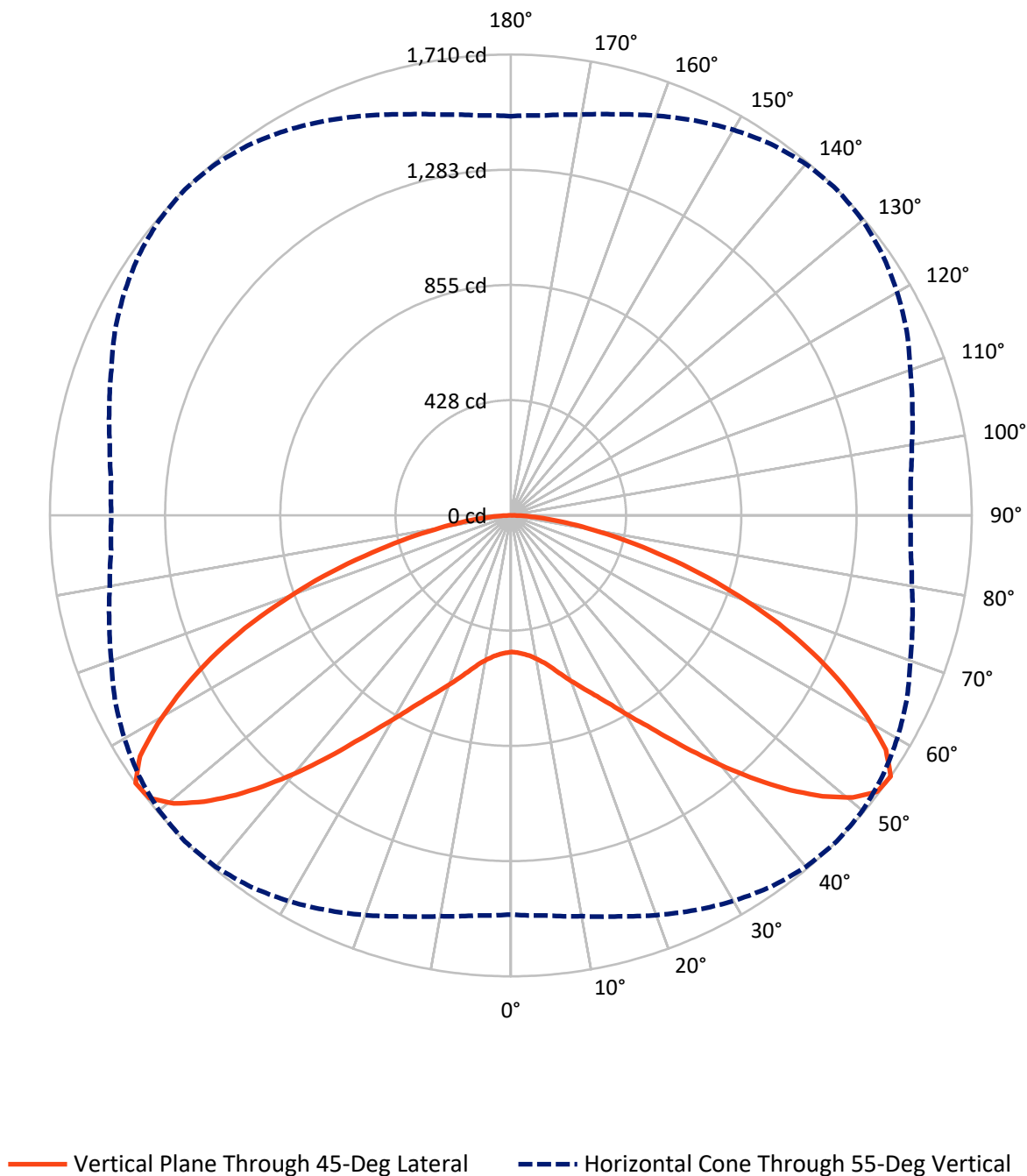


Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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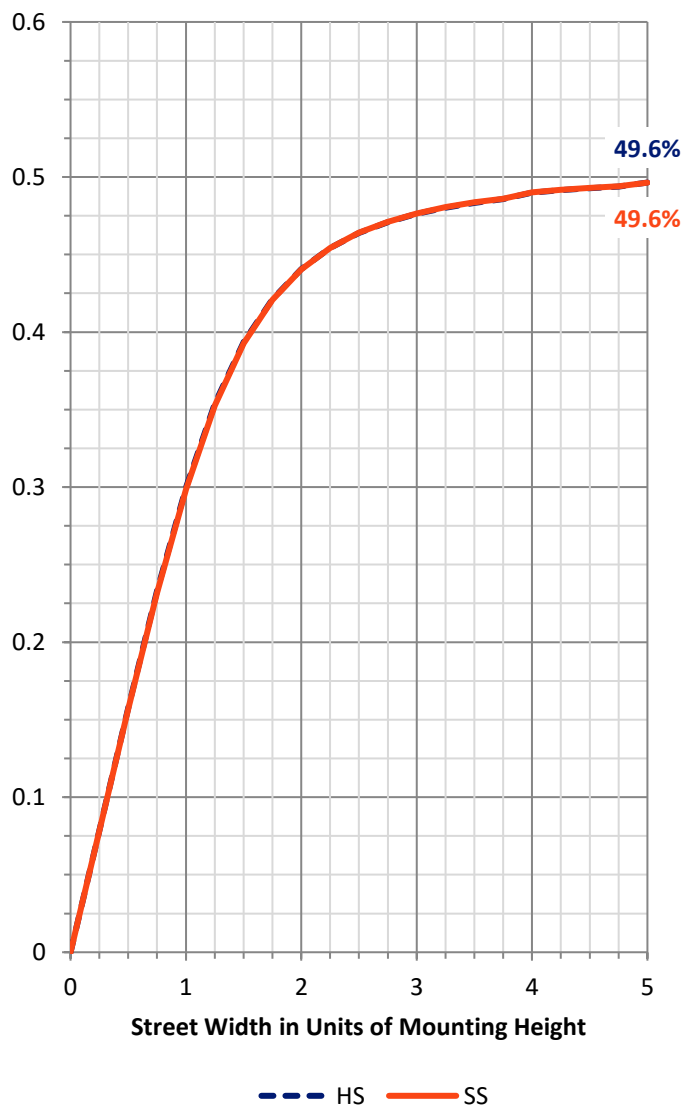
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2733.8	0.0	2733.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2733.8	0.0	2733.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	5467.6	0.0	5467.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	50.0	0.9
10°-20°	169.7	3.1
20°-30°	345.6	6.3
30°-40°	631.2	11.5
40°-50°	1071.7	19.6
50°-60°	1395.7	25.5
60°-70°	1128.8	20.6
70°-80°	554.7	10.1
80°-90°	120.1	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°	5467.6	100.0
0°-180°	5467.6	100.0

Coefficient of Utilization



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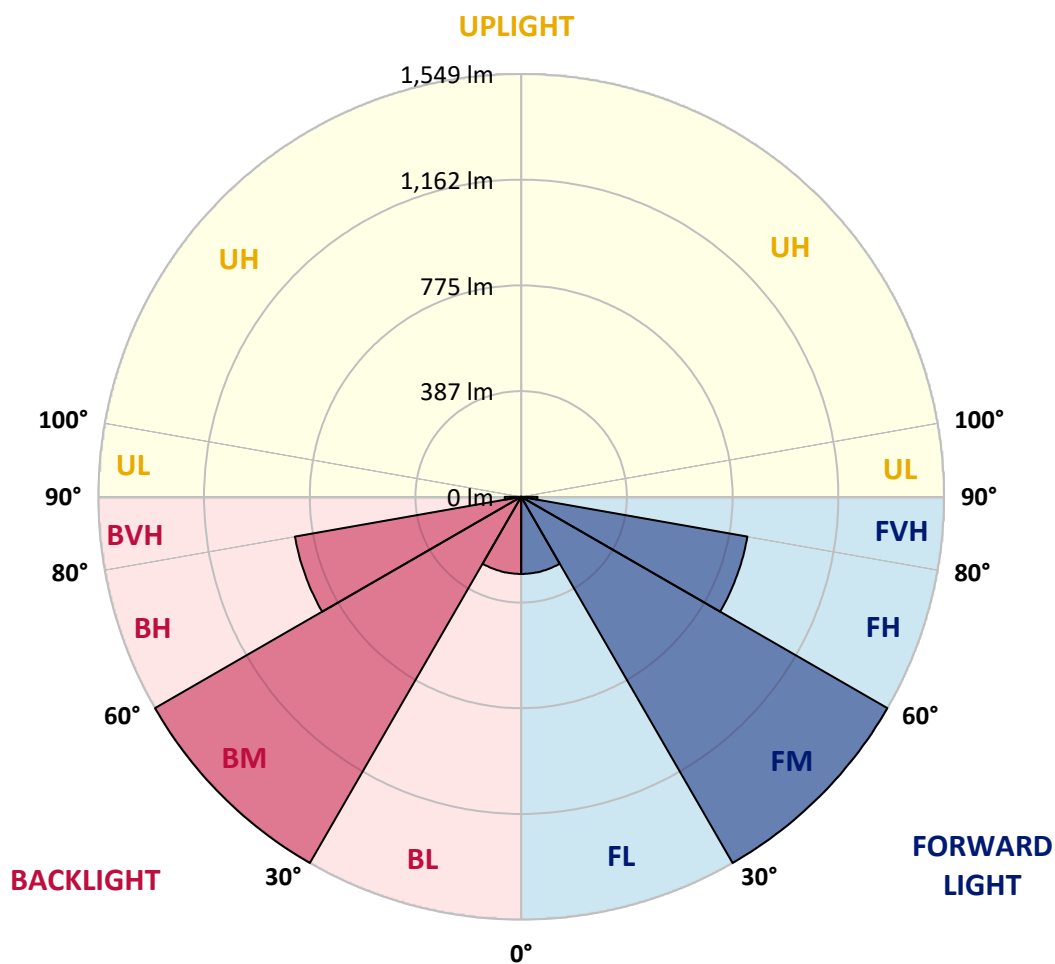
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	282.7	5.2			
FM	(30°-60°)	1549.3	28.3			
FH	(60°-80°)	841.7	15.4			G1/1800
FVH	(80°-90°)	60.0	1.1			G1/100
BL	(0°-30°)	282.7	5.2	B1/500		
BM	(30°-60°)	1549.3	28.3	B2/2500		
BH	(60°-80°)	841.7	15.4	B2/1000		G1/1800
BVH	(80°-90°)	60.0	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°	506.6	506.6	506.6	506.6	506.6	506.6	506.6	506.6	506.6	506.6	506.6
2.5°	508.9	508.9	508.9	508.9	508.9	508.9	510.0	510.0	510.0	510.0	510.0
5°	515.6	515.6	515.6	516.7	516.7	516.7	516.7	516.7	516.7	516.7	516.7
7.5°	525.6	524.5	525.6	525.6	525.6	526.7	526.7	525.6	526.7	526.7	526.7
10°	540.2	539.1	540.2	540.2	540.2	541.3	541.3	541.3	541.3	542.4	542.4
12.5°	561.4	560.3	561.4	562.5	561.4	562.5	562.5	562.5	562.5	562.5	562.5
15°	588.3	587.1	588.3	589.4	588.3	590.5	590.5	589.4	589.4	590.5	590.5
17.5°	620.7	618.5	619.6	620.7	620.7	622.9	622.9	621.8	622.9	624.0	622.9
20°	654.2	652.0	653.1	656.5	656.5	657.6	659.8	658.7	659.8	661.0	659.8
22.5°	691.1	690.0	691.1	694.5	694.5	695.6	699.0	699.0	699.0	700.1	699.0
25°	731.4	730.3	731.4	734.8	734.8	737.0	741.5	741.5	742.6	743.7	742.6
27.5°	778.4	777.3	779.5	782.9	784.0	787.3	792.9	794.0	795.2	796.3	794.0
30°	833.2	830.9	834.3	839.9	842.1	846.6	853.3	855.5	856.7	860.0	857.8
32.5°	895.8	893.6	898.0	904.8	908.1	914.8	923.8	926.0	929.4	931.6	928.2
35°	969.6	968.5	973.0	983.0	988.6	996.5	1008.8	1012.1	1014.4	1018.8	1014.4
37.5°	1051.3	1050.1	1058.0	1069.2	1079.2	1091.5	1104.9	1110.5	1113.9	1119.5	1113.9
40°	1141.9	1140.7	1150.8	1164.2	1176.5	1192.2	1209.0	1216.8	1223.5	1229.1	1222.4
42.5°	1234.7	1234.7	1247.0	1261.5	1279.4	1298.4	1317.4	1326.4	1337.6	1340.9	1333.1
45°	1324.1	1325.3	1337.6	1355.5	1381.2	1405.8	1427.0	1438.2	1450.5	1453.9	1443.8
47.5°	1409.1	1410.3	1421.4	1444.9	1474.0	1502.0	1527.7	1543.3	1555.6	1556.8	1548.9
50°	1478.5	1483.0	1497.5	1518.7	1548.9	1578.0	1609.3	1629.5	1641.8	1645.1	1637.3
52.5°	1505.3	1513.1	1529.9	1556.8	1591.4	1621.6	1656.3	1682.0	1696.6	1702.2	1695.4
55°	1480.7	1489.7	1509.8	1540.0	1578.0	1616.0	1651.8	1682.0	1702.2	1710.0	1703.3
57.5°	1425.9	1427.0	1447.2	1477.4	1512.0	1551.2	1585.8	1613.8	1632.8	1640.6	1639.5
60°	1330.9	1330.9	1349.9	1378.9	1405.8	1446.0	1475.1	1496.4	1509.8	1518.7	1516.5
62.5°	1203.4	1203.4	1220.1	1250.3	1277.2	1311.8	1339.8	1362.2	1371.1	1381.2	1383.4
65°	1061.3	1061.3	1077.0	1107.2	1131.8	1163.1	1189.9	1211.2	1220.1	1232.4	1230.2
67.5°	910.3	909.2	923.8	949.5	973.0	1002.1	1027.8	1047.9	1058.0	1072.5	1062.4
70°	754.9	754.9	767.2	787.3	804.1	833.2	857.8	877.9	885.7	898.0	892.5
72.5°	607.3	606.2	616.2	631.9	645.3	671.0	685.6	707.9	714.6	731.4	722.5
75°	474.2	471.9	479.8	491.0	499.9	516.7	527.9	545.8	551.4	562.5	558.1
77.5°	356.8	355.6	359.0	366.8	373.5	387.0	391.4	400.4	404.8	416.0	407.1
80°	256.1	252.8	256.1	260.6	262.8	272.9	274.0	277.4	279.6	287.4	278.5
82.5°	172.2	167.8	170.0	173.3	173.3	178.9	180.1	178.9	183.4	185.6	181.2
85°	98.4	95.1	96.2	98.4	97.3	100.7	100.7	99.5	102.9	102.9	100.7
87.5°	32.4	30.2	31.3	32.4	32.4	33.6	34.7	33.6	35.8	35.8	33.6
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°	506.6	506.6	506.6	506.6	506.6	506.6	506.6	506.6
2.5°	510.0	510.0	510.0	510.0	510.0	510.0	510.0	510.0
5°	516.7	516.7	516.7	516.7	516.7	515.6	515.6	515.6
7.5°	526.7	526.7	526.7	526.7	526.7	525.6	525.6	525.6
10°	542.4	541.3	541.3	541.3	541.3	540.2	541.3	540.2
12.5°	562.5	563.7	563.7	562.5	563.7	561.4	561.4	561.4
15°	590.5	589.4	589.4	589.4	589.4	588.3	588.3	588.3
17.5°	621.8	621.8	620.7	620.7	619.6	618.5	618.5	618.5
20°	658.7	657.6	656.5	655.4	654.2	652.0	650.9	650.9
22.5°	696.7	695.6	694.5	693.4	692.3	690.0	687.8	687.8
25°	739.2	737.0	735.9	733.6	731.4	729.2	728.1	726.9
27.5°	790.7	788.4	785.1	781.7	777.3	776.1	773.9	773.9
30°	852.2	848.8	844.4	838.8	834.3	829.8	827.6	826.5
32.5°	923.8	919.3	911.5	904.8	896.9	892.5	889.1	886.9
35°	1007.6	1000.9	992.0	981.9	971.9	964.0	958.4	958.4
37.5°	1106.1	1096.0	1082.6	1070.3	1055.7	1046.8	1040.1	1035.6
40°	1213.4	1198.9	1182.1	1166.5	1149.7	1137.4	1127.3	1128.4
42.5°	1319.7	1307.4	1287.2	1268.2	1247.0	1230.2	1217.9	1216.8
45°	1431.5	1415.8	1391.2	1366.6	1342.0	1321.9	1307.4	1305.1
47.5°	1535.5	1518.7	1489.7	1459.5	1432.6	1410.3	1394.6	1392.4
50°	1620.5	1600.4	1570.2	1537.8	1508.7	1484.1	1467.3	1462.8
52.5°	1675.3	1652.9	1620.5	1581.4	1550.1	1522.1	1502.0	1496.4
55°	1684.3	1655.2	1620.5	1576.9	1542.2	1510.9	1488.5	1481.8
57.5°	1622.7	1591.4	1560.1	1522.1	1487.4	1453.9	1436.0	1427.0
60°	1503.1	1478.5	1452.8	1418.1	1390.1	1358.8	1344.3	1339.8
62.5°	1365.5	1344.3	1320.8	1285.0	1261.5	1233.6	1220.1	1214.5
65°	1217.9	1193.3	1170.9	1141.9	1116.1	1092.6	1073.6	1071.4
67.5°	1054.6	1028.9	1009.9	984.2	958.4	936.1	923.8	917.1
70°	882.4	861.1	842.1	814.2	797.4	776.1	767.2	760.5
72.5°	711.3	699.0	675.5	657.6	638.6	621.8	616.2	609.5
75°	550.2	535.7	517.8	506.6	492.1	483.1	478.7	474.2
77.5°	403.7	391.4	381.4	376.9	370.2	361.2	357.9	354.5
80°	279.6	274.0	267.3	266.2	261.7	255.0	253.9	252.8
82.5°	181.2	177.8	175.6	175.6	173.3	168.9	167.8	167.8
85°	100.7	99.5	100.7	99.5	97.3	95.1	95.1	95.1
87.5°	33.6	33.6	34.7	35.8	32.4	32.4	31.3	31.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)