

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: P199948

Luminaire Tested: **GWC-AF-02-LED-E1-SL2-7030-600-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199948
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24287)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GWC-AF-02-LED-E1-SL2-7030-600-HSS
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6445.6 lumens
Efficiency: N/A
Efficacy: 97.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 66
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

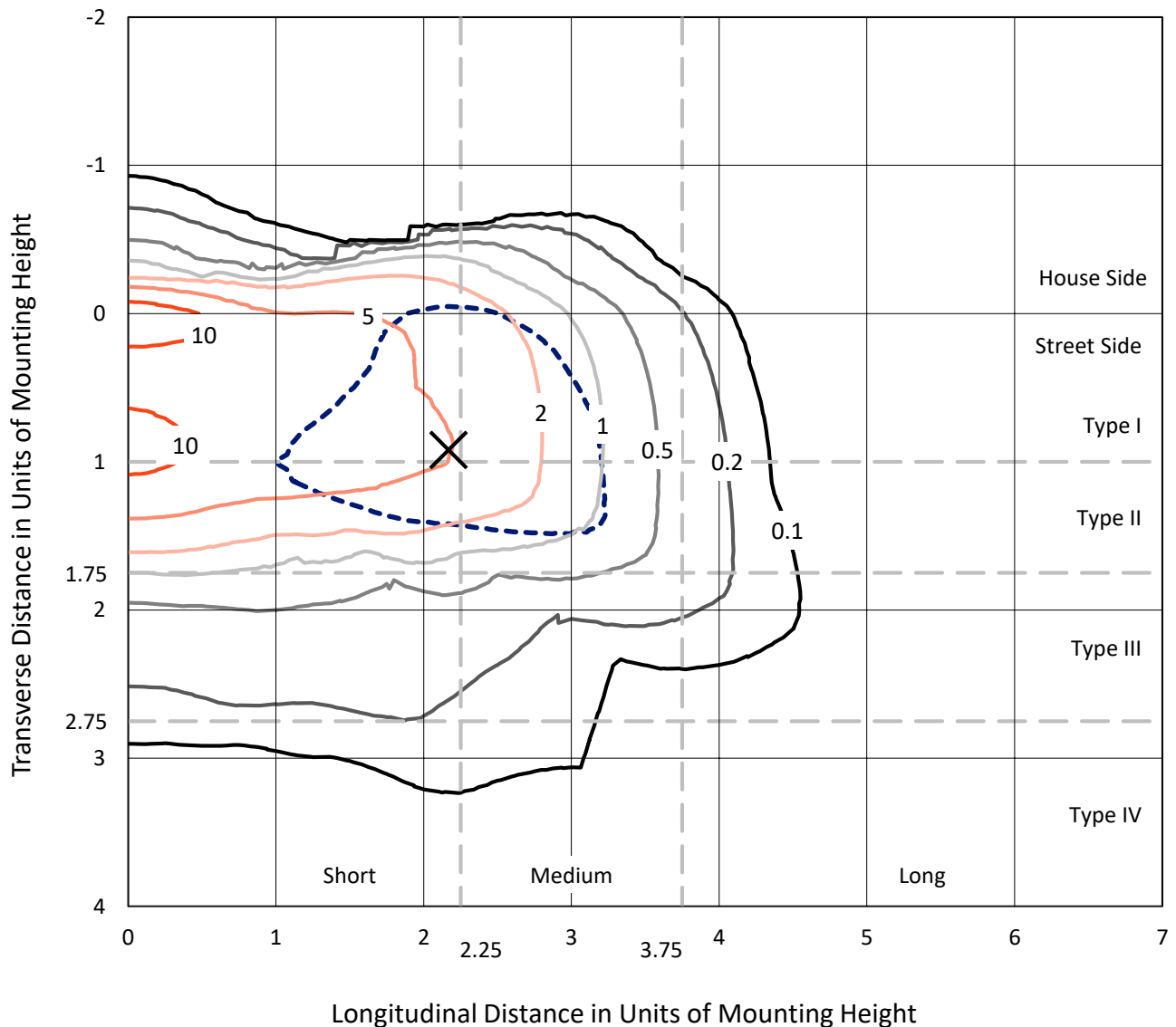


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Iso-Footcandle Lines of Horizontal Illumination

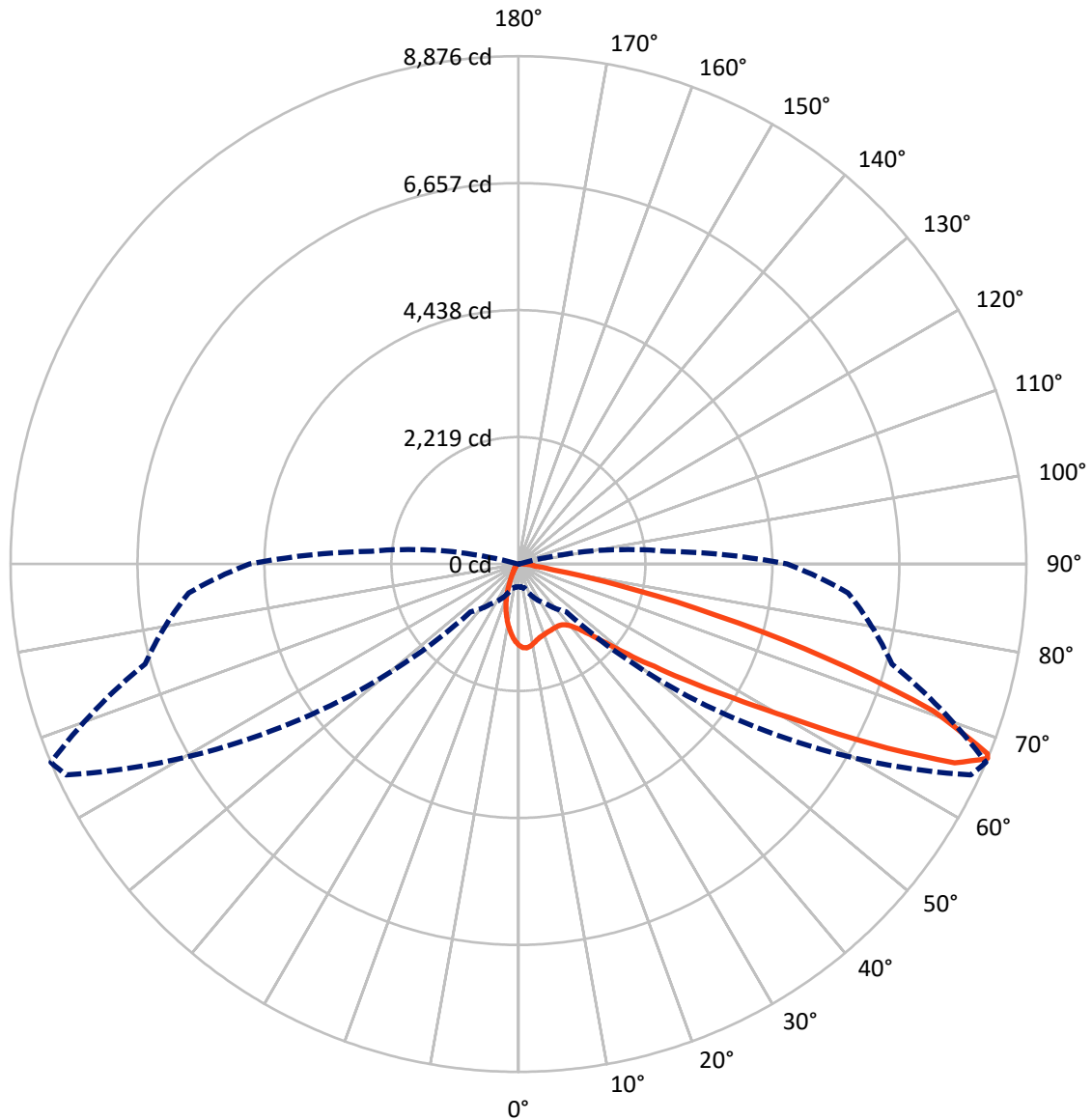
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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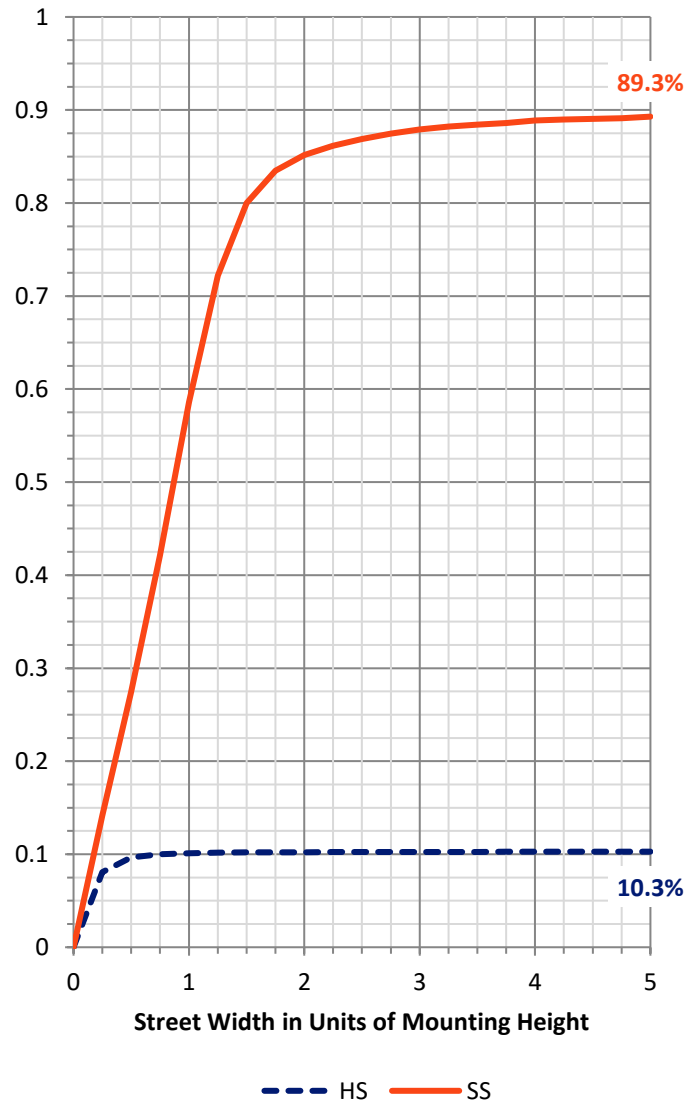
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	669.3	0.0	669.3
	% Fixture	10.4	0.0	10.4
Street Side	Lumens	5776.3	0.0	5776.3
	% Fixture	89.6	0.0	89.6
Total	Lumens	6445.6	0.0	6445.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	115.7	1.8
10°-20°	246.2	3.8
20°-30°	357.9	5.6
30°-40°	558.4	8.7
40°-50°	989.1	15.3
50°-60°	1565.2	24.3
60°-70°	1792.7	27.8
70°-80°	743.6	11.5
80°-90°	76.8	1.2
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°	6445.6	100.0
0°-180°	6445.6	100.0

Coefficient of Utilization



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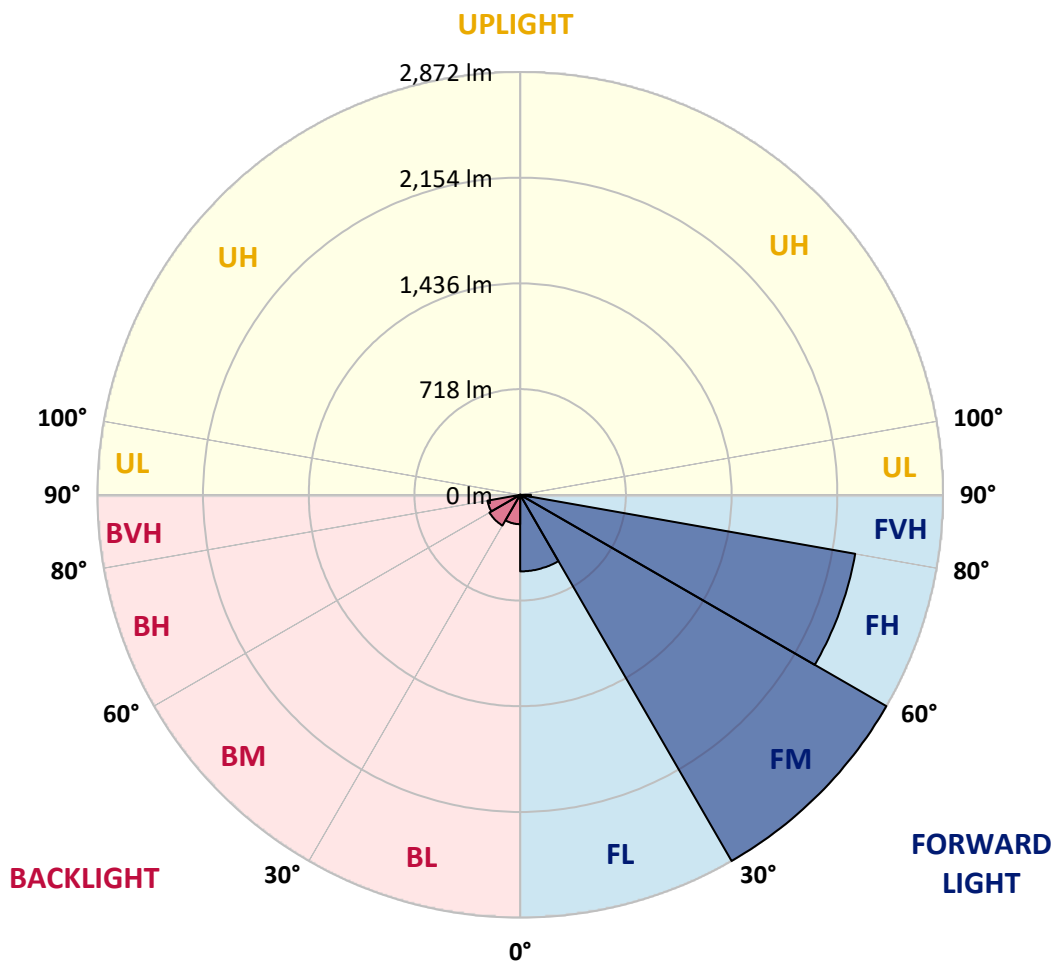
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	520.0	8.1			
FM (30°-60°)	2872.1	44.6			
FH (60°-80°)	2310.7	35.8			G2/5000
FVH (80°-90°)	73.4	1.1			G1/100
BL (0°-30°)	199.7	3.1	B1/500		
BM (30°-60°)	240.5	3.7	B1/1000		
BH (60°-80°)	225.6	3.5	B1/500		G1/500
BVH (80°-90°)	3.5	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	1421.4	1421.4	1421.4	1421.4	1421.4	1421.4	1421.4	1421.4	1421.4	1421.4	1421.4
2.5°	1469.5	1472.6	1472.2	1474.5	1479.8	1480.1	1474.8	1464.7	1462.5	1449.2	1426.4
5°	1355.3	1364.0	1369.2	1390.6	1414.7	1443.7	1465.5	1473.3	1472.2	1462.8	1428.2
7.5°	1224.9	1233.5	1239.5	1264.7	1296.6	1346.2	1403.1	1449.7	1453.8	1464.0	1426.7
10°	1138.0	1139.5	1147.8	1171.8	1205.3	1256.0	1323.7	1405.3	1417.7	1454.9	1422.9
12.5°	1066.6	1067.7	1078.6	1104.6	1140.2	1191.4	1262.5	1356.8	1376.0	1443.7	1422.2
15°	1015.9	1019.9	1029.7	1056.8	1094.8	1145.5	1218.4	1321.1	1344.0	1439.5	1428.9
17.5°	998.9	1003.4	1006.4	1026.0	1060.5	1110.2	1185.0	1297.8	1323.7	1441.7	1442.2
20°	1016.6	1019.9	1013.2	1018.1	1039.5	1083.8	1156.8	1277.8	1308.7	1444.4	1459.0
22.5°	1082.3	1083.8	1065.5	1044.0	1040.2	1064.7	1134.7	1262.0	1295.1	1451.5	1479.0
25°	1195.1	1192.5	1162.5	1116.2	1072.6	1061.3	1121.4	1252.3	1288.4	1459.0	1499.6
27.5°	1331.2	1335.0	1293.6	1226.4	1143.2	1083.8	1119.6	1248.2	1285.3	1464.3	1517.7
30°	1496.6	1501.9	1454.5	1370.0	1250.8	1139.5	1136.9	1247.4	1283.5	1461.0	1519.2
32.5°	1665.5	1671.9	1634.6	1547.4	1394.4	1232.7	1176.0	1255.7	1287.3	1449.2	1510.6
35°	1842.1	1851.2	1826.4	1751.6	1589.2	1367.3	1244.7	1280.8	1304.9	1448.2	1501.9
37.5°	2086.2	2094.4	2047.8	1968.5	1824.9	1547.8	1355.3	1328.2	1346.7	1466.2	1504.1
40°	2450.5	2449.3	2329.0	2207.5	2083.9	1777.2	1510.6	1413.9	1423.4	1520.7	1532.0
42.5°	2847.5	2845.5	2667.8	2483.2	2371.6	2059.4	1714.8	1562.1	1555.7	1621.1	1604.2
45°	3153.5	3153.2	3007.9	2800.1	2717.7	2383.6	1978.7	1768.1	1758.4	1784.3	1737.3
47.5°	3284.0	3286.2	3213.3	3067.0	3101.6	2821.9	2311.3	2066.6	2051.9	2041.4	1970.0
50°	3182.5	3187.0	3193.0	3164.4	3383.2	3411.0	2757.6	2487.3	2480.1	2433.2	2321.5
52.5°	2850.8	2873.8	2944.5	3035.0	3481.0	3976.4	3457.2	3009.9	2971.5	2921.5	2798.6
55°	2292.2	2317.4	2451.6	2671.5	3335.4	4347.9	4437.8	3683.5	3619.6	3470.4	3293.0
57.5°	1516.9	1556.1	1750.8	2030.5	2912.9	4407.7	5416.0	4618.5	4396.0	3987.4	3787.3
60°	835.7	873.3	1084.6	1338.0	2103.8	4112.2	6073.9	5835.9	5442.7	4565.1	4387.7
62.5°	514.7	535.0	691.0	926.7	1261.7	3245.6	6210.0	7365.7	6910.4	5309.1	5112.9
65°	409.8	418.5	494.7	757.5	904.6	1930.5	5770.5	8531.9	8379.9	6210.0	5762.2
67°	397.7	401.2	437.3	650.4	852.7	1183.5	4834.4	8721.7	8875.8	6755.1	5782.5
67.5°	400.4	404.2	438.3	620.7	851.2	1087.6	4511.8	8646.9	8841.7	6798.4	5692.7
70°	386.1	397.7	501.9	620.3	809.4	903.8	2701.9	7492.0	7694.6	6316.7	4830.2
72.5°	136.8	137.6	217.0	501.9	880.1	913.6	1356.8	5492.3	5642.3	4832.2	3482.5
75°	81.2	69.2	72.2	142.9	841.0	887.3	782.8	3509.5	3565.5	2768.9	1763.6
77.5°	56.1	48.9	50.4	63.2	320.3	874.8	621.8	1830.1	1770.4	971.1	375.6
80°	32.0	28.2	30.1	55.3	116.5	816.2	586.4	742.1	632.7	164.7	103.8
82.5°	17.0	14.3	17.3	45.5	81.2	508.7	587.6	358.6	284.2	55.6	70.7
85°	6.0	4.9	8.3	31.3	54.1	156.1	544.8	301.5	236.8	27.1	53.8
87.5°	1.2	1.2	3.4	12.8	21.8	47.8	322.2	178.9	120.0	16.2	36.8
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1421.4	1421.4	1421.4	1421.4	1421.4	1421.4	1421.4	1421.4	1421.4	1421.4	1421.4
2.5°	1416.9	1400.8	1379.0	1352.3	1320.7	1292.9	1272.2	1250.8	1246.2	1238.7	1237.7
5°	1407.6	1379.8	1325.6	1263.5	1197.4	1137.7	1089.1	1045.9	1026.7	1010.2	1008.3
7.5°	1393.6	1351.9	1259.8	1159.8	1056.5	962.5	882.8	826.4	774.5	749.6	745.8
10°	1377.5	1317.7	1185.8	1047.0	904.2	771.4	653.0	553.8	493.6	457.9	453.4
12.5°	1362.5	1284.3	1110.2	930.1	740.3	562.8	410.5	315.8	252.6	227.1	224.1
15°	1355.3	1257.2	1039.5	810.6	568.8	358.3	224.5	173.7	153.1	147.0	146.6
17.5°	1354.5	1234.2	970.3	686.9	398.5	208.3	146.3	133.5	129.3	127.8	127.8
20°	1354.2	1212.4	901.1	558.6	253.1	138.8	121.8	118.8	115.8	114.0	114.0
22.5°	1358.3	1192.9	829.0	427.8	159.4	112.5	107.2	104.2	100.4	97.7	97.4
25°	1362.5	1177.8	755.3	304.5	115.5	97.7	92.5	88.4	83.1	79.7	79.4
27.5°	1363.2	1159.0	676.3	203.8	96.7	85.4	78.6	72.2	66.2	62.8	62.4
30°	1351.9	1127.5	588.7	137.6	85.4	74.1	65.1	58.3	52.6	50.1	50.1
32.5°	1329.7	1088.4	492.5	103.8	75.9	63.6	53.8	47.4	43.6	42.5	42.1
35°	1309.8	1046.3	393.6	88.0	68.1	53.8	44.0	39.8	37.6	37.3	36.8
37.5°	1298.1	1012.4	300.7	79.7	60.6	45.1	37.3	34.3	33.1	32.3	32.8
40°	1307.1	984.3	222.2	72.9	53.1	37.6	31.6	30.1	29.0	28.6	28.6
42.5°	1346.7	979.3	165.1	66.9	45.9	31.3	27.5	26.3	25.6	25.2	25.6
45°	1450.4	1009.4	128.2	61.3	38.8	26.3	23.3	23.0	22.6	22.6	22.6
47.5°	1606.5	1071.5	106.8	54.9	32.3	22.6	20.3	20.0	19.5	20.0	20.0
50°	1870.7	1185.0	95.5	48.5	26.7	19.2	17.3	17.3	17.3	17.3	17.7
52.5°	2272.6	1408.3	88.0	42.1	21.8	16.2	14.7	14.7	15.0	15.0	15.5
55°	2720.4	1704.6	81.2	35.8	18.5	13.5	12.0	12.5	12.8	13.2	13.2
57.5°	3206.1	2032.8	75.6	29.3	15.8	11.0	10.2	10.5	11.0	11.7	11.7
60°	3792.2	2388.1	67.3	23.0	13.2	8.7	7.9	8.7	9.8	10.5	11.0
62.5°	4435.8	2731.7	56.8	18.0	11.0	6.8	6.4	7.9	9.5	10.2	10.5
65°	4875.8	2839.5	43.6	14.7	8.3	4.9	5.3	7.2	9.0	10.2	10.2
67°	4697.6	2574.6	35.8	12.5	6.8	3.8	4.9	7.2	9.0	9.8	10.2
67.5°	4573.8	2470.8	34.3	12.0	6.4	3.8	4.9	7.2	9.0	10.2	10.2
70°	3721.6	1856.1	28.6	9.0	5.3	3.4	4.2	6.8	8.7	9.8	9.8
72.5°	2585.8	1144.4	25.6	6.4	4.5	3.0	3.8	6.4	8.3	9.5	9.8
75°	1229.4	414.3	21.8	4.9	4.2	2.7	3.4	6.4	8.3	9.5	9.5
77.5°	250.8	96.2	17.7	4.2	3.4	2.7	3.0	6.0	7.9	9.0	9.0
80°	82.4	37.3	13.2	3.8	3.4	2.7	3.0	5.7	7.9	8.7	9.0
82.5°	59.4	18.8	8.7	3.8	3.4	2.7	2.7	5.7	7.5	8.7	8.7
85°	45.5	13.2	5.7	3.8	3.4	2.7	2.7	5.3	7.2	8.3	8.3
87.5°	30.1	5.3	4.5	3.8	3.4	2.7	2.7	5.3	6.8	7.9	8.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)