

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: P199988

Luminaire Tested: **GWC-AF-02-LED-E1-SL4-7030-600**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P199988
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
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-SL4-7030-600
Description: GALLEON WALL LUMINAIRE
(2) 70 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7520.3 lumens
Efficiency: N/A
Efficacy: 113.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - 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

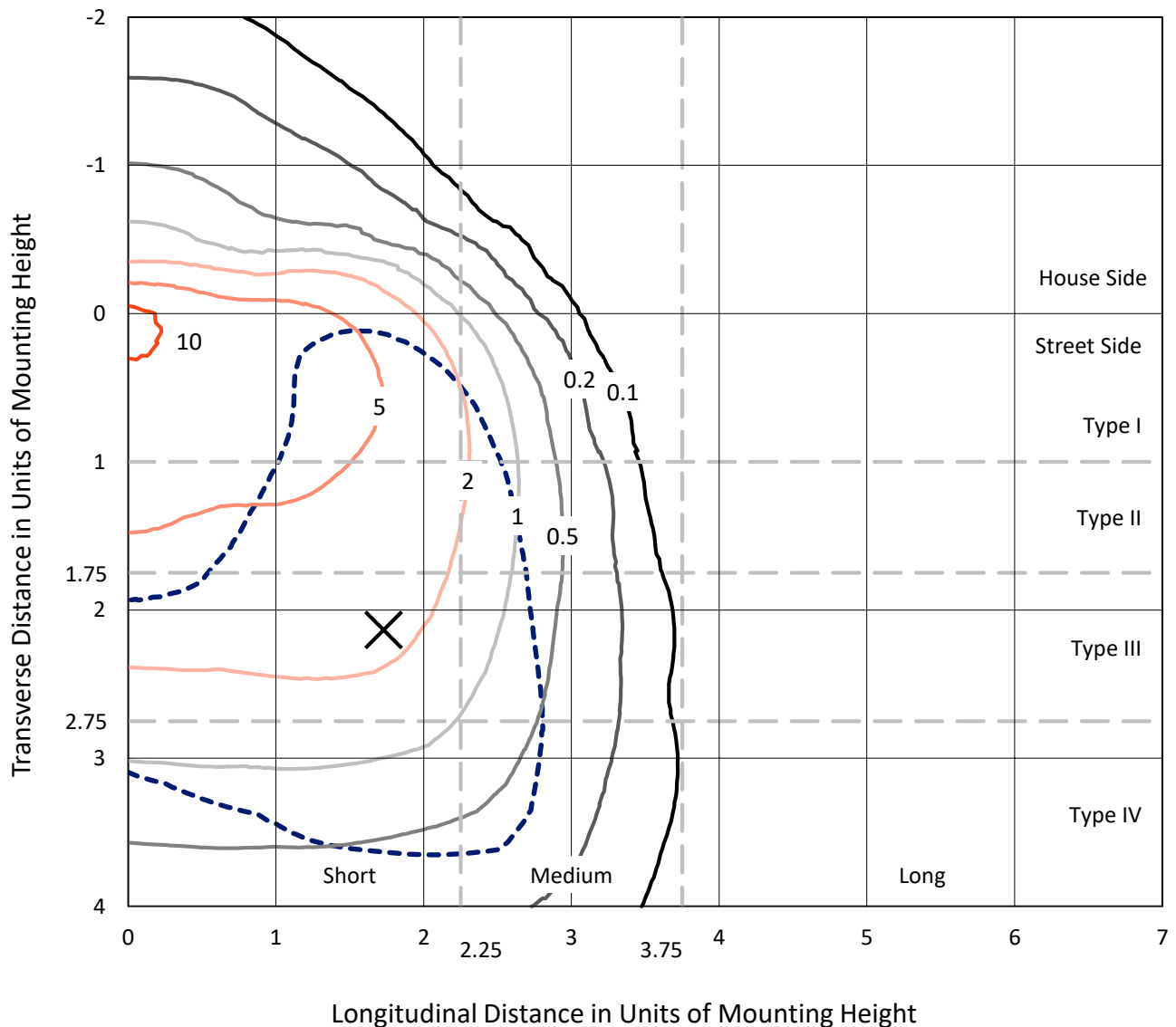


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

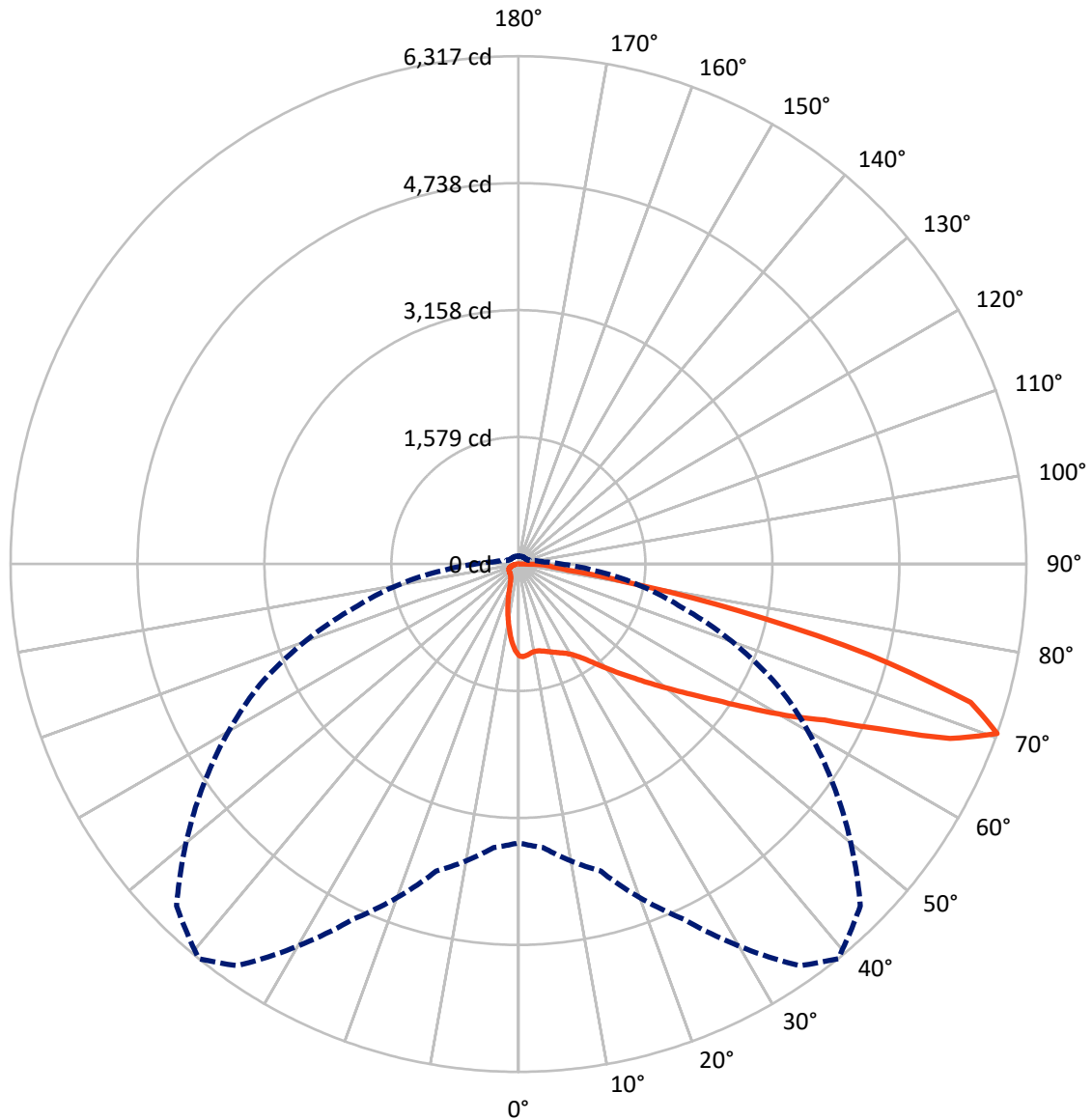


Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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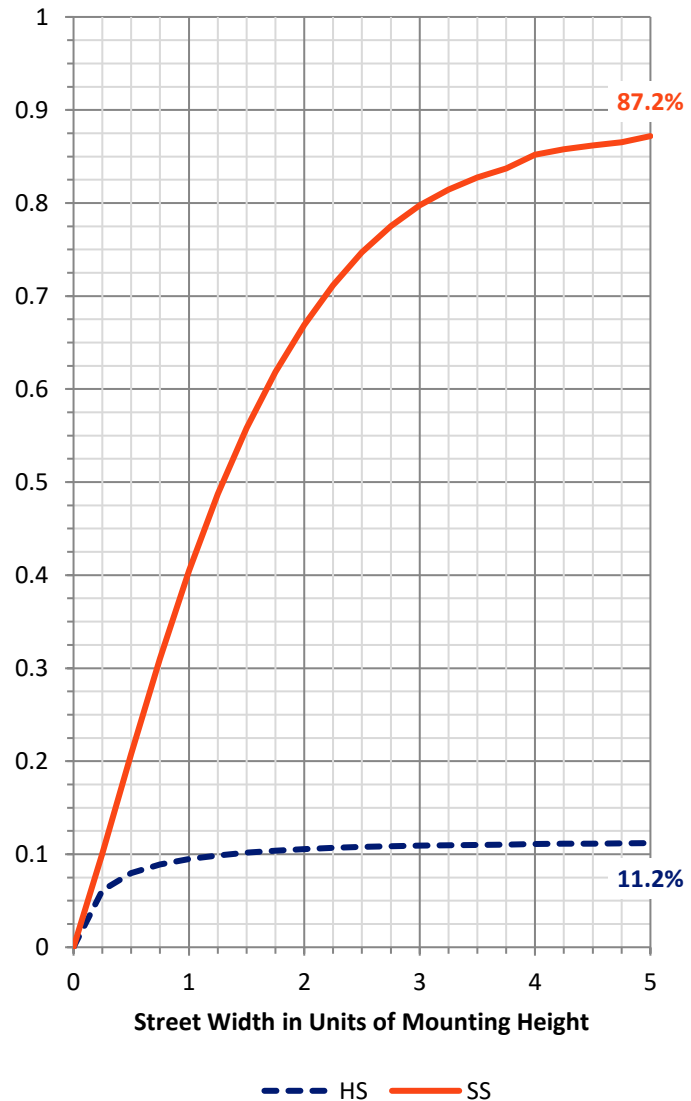
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	855.3	0.0	855.3
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	6665.0	0.0	6665.0
	% Fixture	88.6	0.0	88.6
Total	Lumens	7520.3	0.0	7520.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	1.3
10°-20°	244.9	3.3
20°-30°	381.3	5.1
30°-40°	594.1	7.9
40°-50°	997.3	13.3
50°-60°	1584.3	21.1
60°-70°	2113.3	28.1
70°-80°	1276.2	17.0
80°-90°	231.0	3.1
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°	7520.3	100.0
0°-180°	7520.3	100.0



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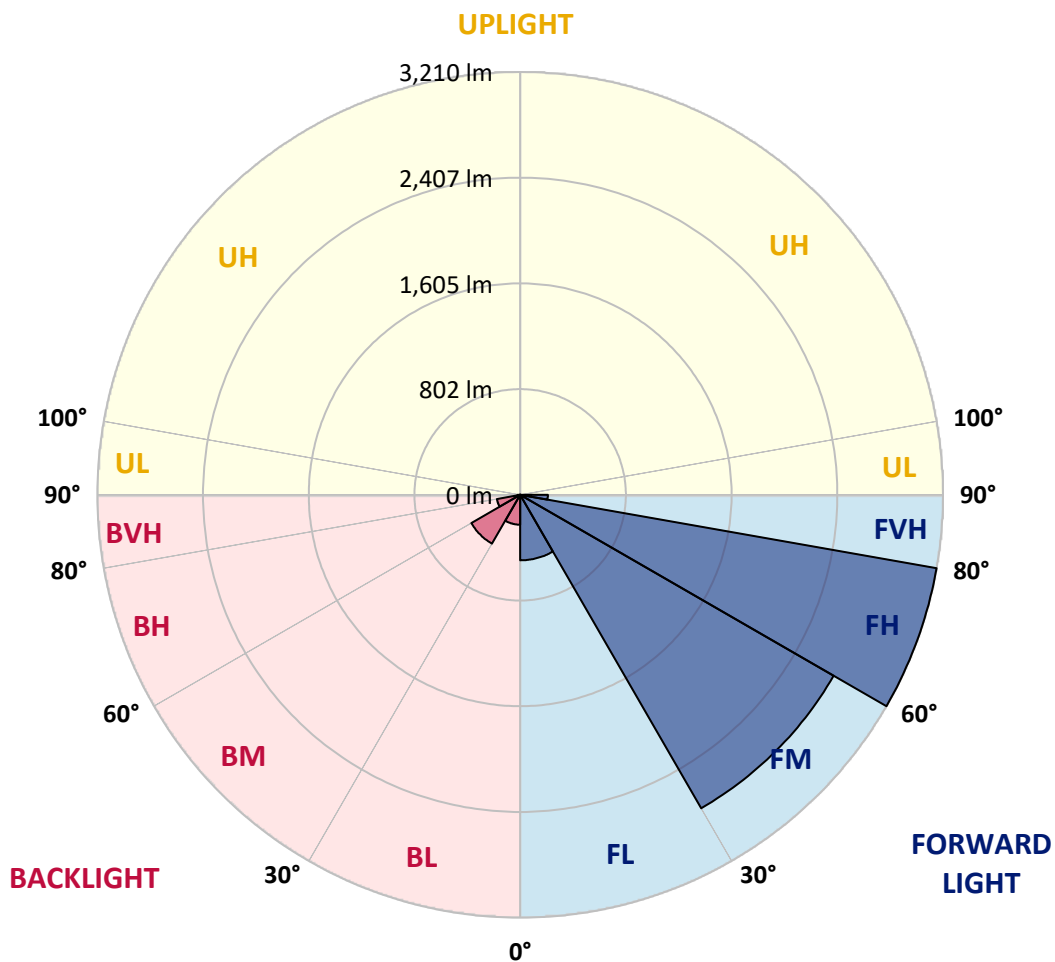
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	497.3	6.6			
FM	(30°-60°)	2747.6	36.5			
FH	(60°-80°)	3209.9	42.7			G2/5000
FVH	(80°-90°)	210.1	2.8			G2/225
BL	(0°-30°)	226.9	3.0	B1/500		
BM	(30°-60°)	428.0	5.7	B1/1000		
BH	(60°-80°)	179.5	2.4	B1/500		G1/500
BVH	(80°-90°)	20.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6
2.5°	1163.8	1163.5	1160.5	1158.1	1156.2	1155.4	1156.9	1151.3	1146.2	1140.1	1133.7
5°	1155.1	1154.7	1149.7	1145.1	1140.5	1139.0	1138.6	1128.3	1122.2	1113.1	1100.8
7.5°	1145.5	1143.6	1137.1	1129.4	1121.4	1117.6	1113.8	1100.5	1093.5	1084.4	1070.2
10°	1135.5	1133.2	1127.1	1119.5	1111.9	1106.1	1099.7	1086.7	1079.4	1072.5	1056.1
12.5°	1125.3	1123.3	1121.8	1118.4	1113.1	1108.1	1103.1	1092.0	1084.4	1076.3	1057.2
15°	1123.7	1122.9	1126.4	1128.6	1125.6	1122.5	1117.1	1107.7	1099.7	1091.6	1066.8
17.5°	1136.0	1135.5	1144.4	1150.5	1149.0	1143.6	1136.3	1125.6	1119.2	1112.3	1081.3
20°	1162.7	1164.6	1175.3	1183.4	1175.7	1168.1	1156.2	1141.3	1137.8	1134.7	1096.2
22.5°	1213.3	1215.1	1222.7	1225.8	1205.9	1194.9	1178.4	1159.2	1156.9	1159.2	1114.1
25°	1292.0	1290.1	1288.9	1277.5	1241.0	1223.9	1202.8	1183.0	1184.2	1194.4	1139.3
27.5°	1396.4	1386.1	1370.0	1335.5	1277.8	1258.6	1233.1	1214.8	1221.9	1241.8	1177.3
30°	1504.5	1493.0	1456.0	1399.8	1326.0	1305.0	1276.2	1255.6	1274.7	1306.0	1227.7
32.5°	1604.7	1603.2	1548.9	1476.6	1392.5	1374.2	1345.5	1322.1	1353.1	1400.9	1303.5
35°	1714.1	1717.5	1652.5	1565.6	1482.4	1463.3	1442.7	1425.1	1466.4	1532.1	1413.2
37.5°	1831.0	1838.0	1761.2	1663.3	1584.8	1576.8	1564.6	1557.0	1620.8	1711.8	1566.4
40°	1987.4	1980.6	1873.9	1773.4	1710.7	1710.2	1706.4	1715.6	1821.9	1946.6	1763.5
42.5°	2154.9	2134.7	1993.6	1891.5	1848.6	1861.7	1869.3	1906.8	2063.9	2231.7	2003.5
45°	2335.4	2289.8	2117.9	2016.5	2001.9	2029.5	2055.5	2137.0	2348.7	2556.4	2266.6
47.5°	2479.5	2435.6	2246.3	2147.7	2179.4	2221.1	2271.2	2400.0	2667.7	2891.8	2526.2
50°	2593.2	2564.5	2376.0	2300.6	2374.8	2439.0	2520.8	2697.8	2999.5	3218.2	2766.7
52.5°	2703.2	2681.8	2506.7	2457.3	2604.2	2692.9	2804.1	3017.5	3339.8	3539.5	2968.9
55°	2802.6	2787.3	2647.4	2652.7	2874.2	2989.6	3129.5	3381.5	3710.7	3825.8	3140.2
57.5°	2914.7	2895.2	2808.0	2897.9	3221.0	3370.7	3552.8	3790.6	4058.7	4080.4	3270.6
60°	3027.5	3010.6	2986.2	3180.7	3661.4	3818.9	3991.3	4187.2	4411.6	4278.1	3263.0
62.5°	3125.4	3127.2	3170.4	3477.8	4092.7	4275.1	4485.3	4678.8	4730.8	4312.6	3021.7
65°	3291.3	3321.5	3450.3	3898.5	4699.9	4943.8	5201.9	5170.9	4819.2	3991.0	2504.4
67.5°	3488.5	3541.7	3802.9	4459.0	5467.3	5791.1	5890.9	5282.1	4465.4	3244.2	1785.2
70°	3468.7	3541.7	3955.0	4876.9	6099.6	6316.9	6013.9	4780.5	3545.9	2119.4	948.3
72.5°	3080.2	3184.6	3645.0	4685.4	5900.4	5881.3	5221.0	3563.9	2106.7	851.1	370.5
75°	2347.7	2453.2	2849.3	3701.6	4663.5	4502.9	3704.7	1968.8	799.4	338.0	233.6
77.5°	1350.5	1432.3	1738.2	2270.0	2958.6	2793.9	2062.0	875.6	389.2	235.6	182.4
80°	754.0	799.4	985.3	1151.6	1449.9	1329.0	922.5	544.1	290.6	170.9	140.7
82.5°	596.1	636.7	796.8	726.5	662.2	611.0	529.9	484.4	232.0	107.8	84.1
85°	520.7	559.4	674.4	572.0	452.4	414.8	430.5	476.8	180.5	65.0	71.9
87.5°	482.5	534.2	601.0	440.9	352.2	312.1	397.2	522.7	58.1	40.5	29.1
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°	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6	1141.6
2.5°	1127.9	1121.8	1111.9	1103.1	1089.4	1082.1	1074.0	1068.3	1063.7	1060.0	1066.1
5°	1093.1	1081.6	1060.7	1038.1	1011.3	990.3	972.7	956.2	944.8	937.1	942.5
7.5°	1060.3	1041.6	1008.7	967.7	921.8	882.9	850.7	822.4	802.9	790.3	795.3
10°	1041.6	1018.2	967.4	903.1	835.4	774.6	724.2	680.5	650.4	633.1	635.9
12.5°	1037.0	1006.8	936.4	848.1	755.5	671.1	600.0	539.5	497.0	474.8	475.6
15°	1040.3	1001.8	907.3	795.3	678.3	571.7	482.9	409.5	360.2	335.0	334.6
17.5°	1046.1	998.0	876.7	738.4	600.0	476.1	377.0	305.2	261.5	241.3	239.8
20°	1052.2	991.8	842.3	676.8	518.4	387.4	295.2	239.0	211.4	200.4	199.6
22.5°	1061.0	986.5	806.8	611.8	438.5	315.4	242.8	205.0	190.4	184.6	183.9
25°	1075.2	983.8	768.8	544.1	366.7	263.9	211.4	188.2	179.7	175.9	175.5
27.5°	1098.9	987.6	733.3	478.3	308.2	229.0	193.8	179.7	173.6	170.1	169.8
30°	1129.4	999.5	695.9	415.9	262.7	205.3	183.1	173.9	169.1	165.5	165.5
32.5°	1180.3	1019.4	656.5	362.0	230.2	188.9	175.2	169.1	164.8	162.1	161.7
35°	1255.3	1056.9	619.8	317.4	206.8	177.0	168.3	163.7	160.6	159.1	159.1
37.5°	1364.2	1116.1	587.3	285.2	192.8	169.1	161.7	158.3	156.3	156.3	156.3
40°	1510.6	1197.9	560.9	263.9	184.6	163.3	156.8	154.0	153.0	153.3	153.3
42.5°	1691.6	1304.2	543.3	248.9	180.9	159.8	153.3	151.0	149.9	149.4	149.9
45°	1897.7	1425.1	541.4	237.8	177.0	157.6	151.0	148.7	146.4	144.9	144.9
47.5°	2098.0	1547.7	557.1	234.1	172.8	154.8	149.1	146.9	143.3	140.0	140.0
50°	2275.0	1652.1	578.1	235.6	171.3	151.0	146.1	144.9	139.6	135.7	135.4
52.5°	2415.7	1732.5	595.4	240.2	172.8	148.4	142.2	142.6	136.9	132.6	132.3
55°	2528.5	1785.2	590.8	244.7	176.2	146.9	138.8	139.6	134.9	130.8	130.8
57.5°	2577.9	1765.7	539.8	240.9	178.9	147.2	136.1	139.2	135.4	131.5	131.5
60°	2471.9	1592.5	444.6	224.1	175.5	146.1	134.9	140.7	140.3	136.5	136.1
62.5°	2151.6	1282.3	344.9	199.2	163.7	140.3	131.8	140.3	144.5	143.3	143.0
65°	1658.2	913.4	263.5	172.4	147.6	130.8	123.9	131.5	137.2	138.8	138.4
67.5°	1076.3	559.7	203.0	147.2	129.6	119.6	113.5	117.0	118.1	118.1	117.4
70°	529.2	301.3	161.7	123.9	111.2	107.8	104.4	102.4	100.5	99.0	99.0
72.5°	261.1	196.8	133.1	104.8	95.9	94.4	93.6	91.3	89.8	88.0	87.2
75°	193.1	160.2	113.2	88.3	82.6	81.1	82.6	80.7	80.3	78.7	78.0
77.5°	158.7	136.5	97.5	75.7	70.7	68.1	70.4	70.7	71.1	68.9	68.1
80°	128.8	115.5	81.4	62.8	58.1	56.2	57.7	60.7	61.5	58.1	56.6
82.5°	92.9	94.4	65.8	48.9	45.2	43.6	46.7	50.5	51.3	46.2	45.2
85°	78.0	78.7	50.5	34.8	30.9	28.6	33.7	37.4	40.1	35.2	34.0
87.5°	32.4	46.2	29.1	19.4	17.2	14.9	17.9	19.8	24.0	22.2	21.8
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)