

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: STREETWORKS

Report Number: P193360

Luminaire Tested: **GAN-AF-02-LED-U-5MQ-8030-1200**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P193360
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24142)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-5MQ-8030-1200
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11452 lumens
Efficiency: N/A
Efficacy: 88.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 129
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: 28.75 FT

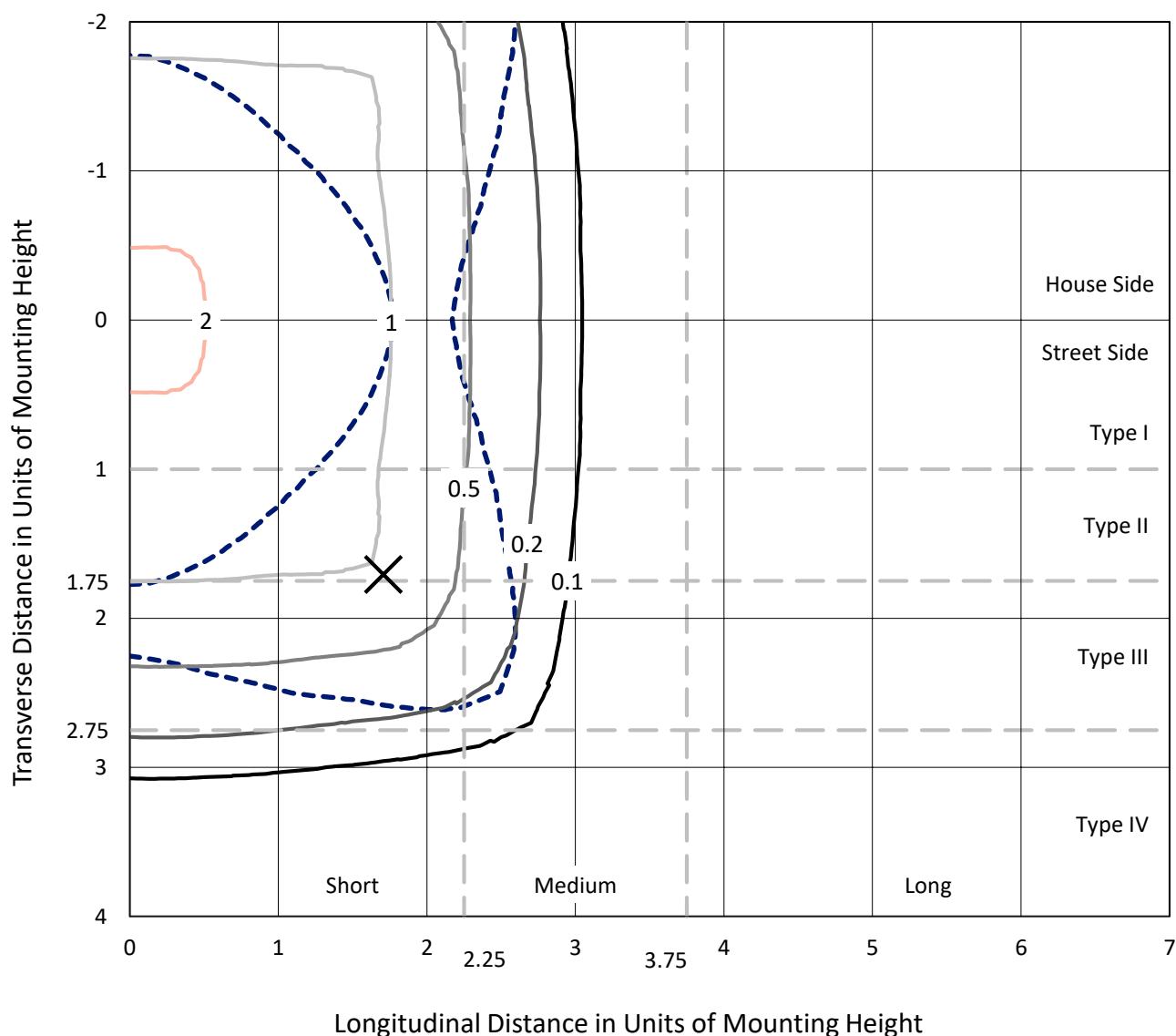


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

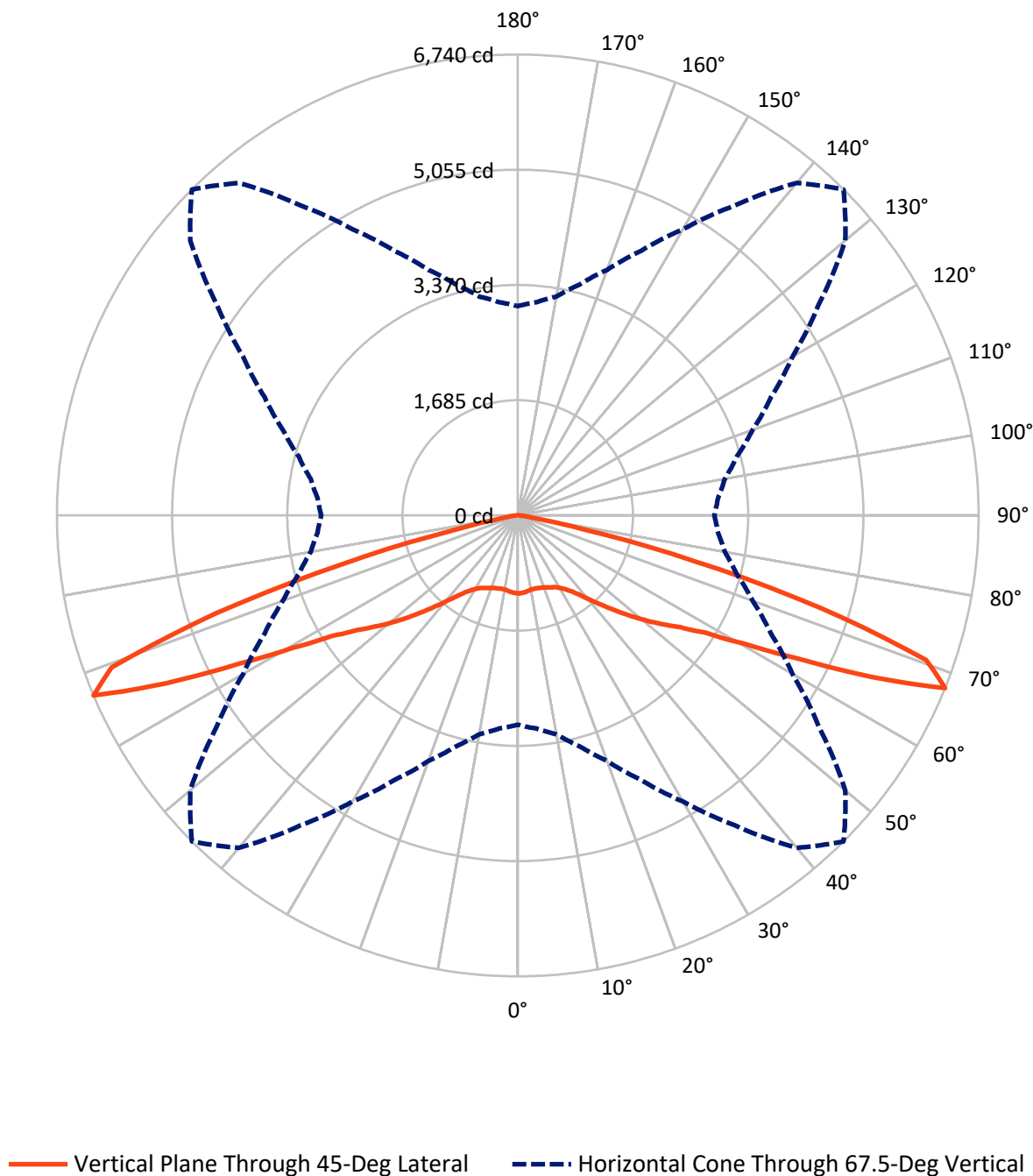


Based on 20 foot mounting height. Maximum calculated value = 2.9 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5726.0	0.0	5726.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	5726.0	0.0	5726.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	11452.0	0.0	11452.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	106.8	0.9
10°-20°	310.0	2.7
20°-30°	526.9	4.6
30°-40°	861.4	7.5
40°-50°	1537.7	13.4
50°-60°	2592.5	22.6
60°-70°	4023.3	35.1
70°-80°	1413.6	12.3
80°-90°	79.9	0.7
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°	11452.0	100.0
0°-180°	11452.0	100.0

Coefficient of Utilization



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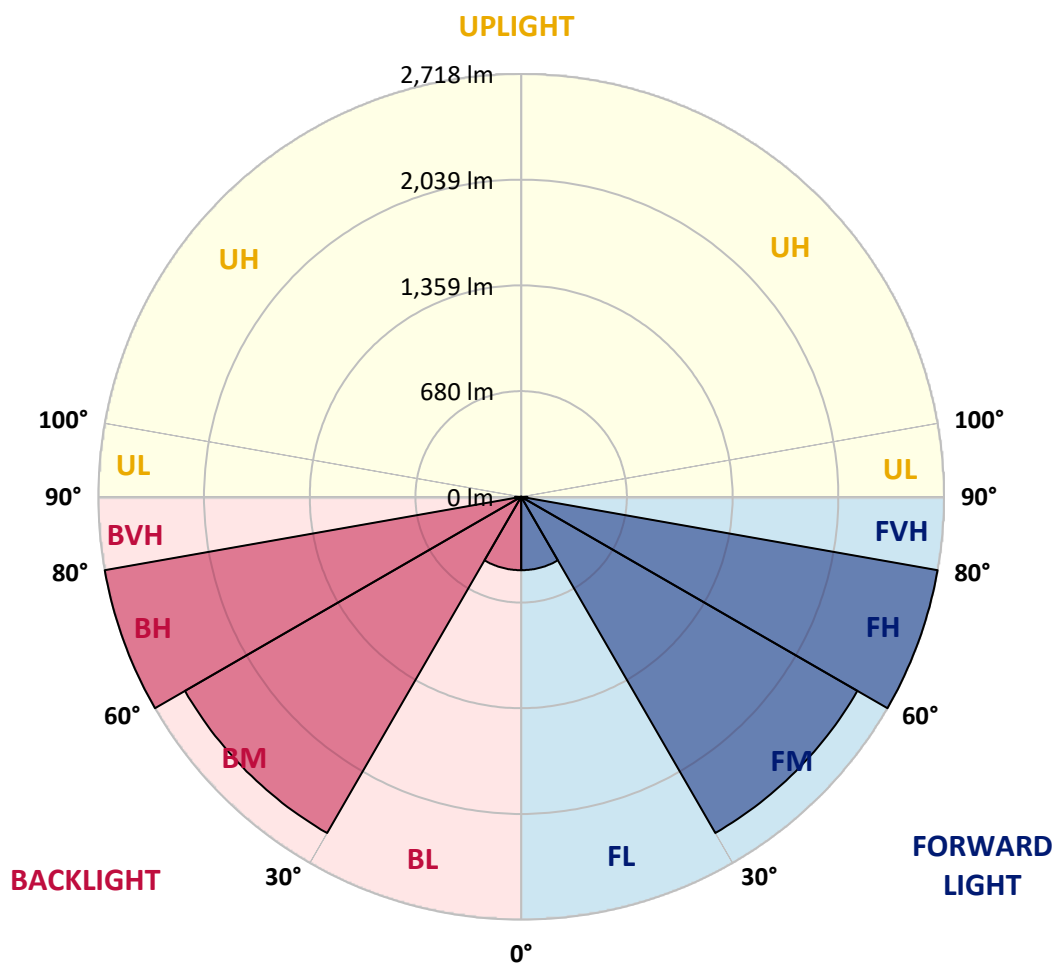
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	471.8	4.1			
FM	(30°-60°)	2495.8	21.8			
FH	(60°-80°)	2718.4	23.7			G2/5000
FVH	(80°-90°)	39.9	0.3			G1/100
BL	(0°-30°)	471.8	4.1	B1/500		
BM	(30°-60°)	2495.8	21.8	B2/2500		
BH	(60°-80°)	2718.4	23.7	B4/5000		G2/5000
BVH	(80°-90°)	39.9	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1141.2	1141.2	1141.2	1141.2	1141.2	1141.2	1141.2	1141.2	1141.2	1141.2	1141.2
2.5°	1137.0	1138.1	1138.1	1138.1	1137.6	1137.6	1136.5	1137.6	1137.0	1135.4	1136.0
5°	1127.5	1128.6	1128.6	1128.1	1129.7	1129.1	1127.5	1128.6	1128.1	1127.0	1127.5
7.5°	1113.9	1115.4	1115.4	1114.9	1116.5	1116.0	1114.9	1115.4	1115.4	1113.9	1113.9
10°	1098.6	1099.6	1099.6	1099.1	1101.7	1101.7	1101.2	1102.8	1103.3	1101.7	1100.7
12.5°	1084.4	1085.9	1085.9	1088.0	1090.7	1091.7	1094.4	1096.5	1098.6	1098.1	1095.9
15°	1075.9	1077.0	1079.1	1081.7	1085.9	1089.6	1093.8	1098.6	1102.8	1103.8	1100.7
17.5°	1070.7	1072.2	1075.4	1079.1	1084.9	1091.2	1097.5	1103.8	1109.6	1111.7	1108.1
20°	1069.1	1070.1	1073.3	1079.6	1087.5	1097.0	1106.0	1113.3	1121.2	1123.9	1121.2
22.5°	1072.2	1074.4	1078.0	1085.4	1095.9	1108.1	1118.6	1128.6	1138.6	1143.3	1139.7
25°	1086.5	1088.6	1093.3	1102.8	1114.4	1127.0	1139.1	1150.7	1159.7	1164.4	1161.8
27.5°	1112.8	1115.4	1121.2	1130.7	1143.3	1157.0	1170.2	1179.7	1187.1	1188.6	1185.5
30°	1152.3	1158.1	1164.9	1175.5	1190.2	1201.8	1215.0	1223.4	1232.3	1232.3	1229.7
32.5°	1213.9	1219.7	1227.1	1237.1	1248.7	1261.3	1272.9	1280.3	1289.8	1290.3	1284.0
35°	1306.1	1308.7	1315.0	1321.4	1331.9	1342.9	1353.0	1357.7	1365.6	1366.1	1360.3
37.5°	1427.7	1428.3	1432.5	1434.6	1444.1	1456.2	1465.7	1468.8	1476.2	1475.1	1469.3
40°	1569.4	1572.0	1573.6	1576.8	1586.8	1598.4	1608.4	1610.0	1617.9	1616.3	1608.9
42.5°	1733.2	1734.2	1743.2	1747.9	1757.4	1763.2	1775.8	1777.4	1786.9	1782.7	1774.3
45°	1917.0	1926.5	1934.9	1944.4	1954.4	1961.2	1971.2	1969.1	1975.4	1969.1	1964.4
47.5°	2110.3	2117.1	2136.1	2150.8	2167.1	2172.9	2187.2	2180.8	2187.2	2178.2	2176.6
50°	2323.0	2335.1	2351.5	2368.3	2385.7	2395.2	2413.6	2405.7	2414.1	2405.7	2401.0
52.5°	2532.6	2535.8	2571.6	2596.4	2620.6	2631.6	2642.7	2639.0	2639.5	2639.0	2634.3
55°	2731.7	2739.1	2774.9	2808.6	2850.7	2881.8	2900.8	2898.7	2893.9	2889.2	2881.3
57.5°	2956.1	2963.4	3004.5	3046.1	3094.0	3138.3	3176.7	3216.2	3231.5	3235.7	3218.3
60°	3259.4	3258.9	3313.7	3364.2	3432.7	3498.5	3582.8	3668.6	3767.1	3812.9	3752.3
62.5°	3568.0	3580.7	3659.7	3749.2	3890.3	4027.8	4183.1	4335.9	4491.8	4618.7	4483.9
65°	3531.2	3579.6	3697.0	3899.8	4160.5	4470.2	4805.1	5159.5	5479.7	5699.9	5452.9
67.5°	3060.3	3129.3	3248.9	3495.3	3821.3	4267.9	4830.4	5531.4	6346.1	6740.0	6251.8
70°	2218.2	2296.2	2421.5	2662.2	2985.0	3409.5	4020.4	4862.0	5940.6	6337.6	5799.9
72.5°	1103.8	1146.0	1223.4	1376.7	1621.0	1965.4	2519.5	3328.4	4282.7	4647.1	4155.8
75°	375.0	394.5	407.6	457.7	535.1	670.4	945.9	1455.1	2219.8	2661.1	2188.2
77.5°	216.5	217.0	225.9	234.9	248.0	262.8	299.7	393.4	680.4	966.4	704.1
80°	140.1	139.6	146.9	153.8	162.7	170.1	172.2	182.2	210.1	249.1	222.8
82.5°	72.7	81.6	98.0	106.9	123.8	126.9	122.7	119.0	125.9	130.6	133.8
85°	40.0	34.8	52.1	67.4	74.8	75.8	75.8	71.6	74.3	72.7	79.0
87.5°	18.4	16.9	20.5	33.2	35.3	30.0	31.6	27.9	20.0	19.5	22.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1141.2	1141.2	1141.2	1141.2	1141.2	1141.2	1141.2	1141.2
2.5°	1136.0	1136.5	1136.5	1138.1	1138.6	1139.7	1140.7	1141.2
5°	1127.0	1128.6	1127.5	1129.1	1129.1	1130.2	1130.2	1130.7
7.5°	1113.9	1115.4	1115.4	1115.4	1114.9	1116.5	1116.5	1116.5
10°	1100.2	1101.2	1100.7	1099.6	1098.6	1100.2	1099.6	1099.1
12.5°	1095.9	1093.3	1091.2	1090.2	1088.0	1088.6	1087.0	1087.0
15°	1098.6	1093.8	1090.2	1088.6	1086.5	1085.4	1084.4	1084.9
17.5°	1105.4	1099.6	1094.9	1092.3	1089.6	1088.0	1085.9	1086.5
20°	1117.5	1110.7	1103.8	1098.6	1093.8	1091.2	1089.6	1089.1
22.5°	1135.4	1125.4	1115.4	1107.5	1101.2	1097.5	1095.9	1094.9
25°	1156.0	1144.9	1133.3	1124.4	1118.1	1113.3	1110.2	1110.2
27.5°	1181.8	1172.8	1162.3	1151.8	1146.0	1141.2	1139.1	1138.1
30°	1225.0	1216.6	1208.1	1198.1	1190.7	1186.0	1182.3	1179.2
32.5°	1280.3	1273.4	1266.6	1259.2	1252.4	1246.0	1240.2	1237.6
35°	1358.2	1353.0	1348.2	1339.8	1337.2	1333.5	1330.3	1327.7
37.5°	1465.7	1463.5	1463.5	1454.6	1452.5	1450.9	1447.7	1448.3
40°	1606.8	1608.9	1606.3	1603.1	1601.5	1597.3	1597.3	1601.0
42.5°	1773.7	1775.3	1781.1	1775.8	1781.6	1776.4	1773.2	1775.8
45°	1967.5	1973.3	1984.9	1979.7	1983.3	1974.4	1963.3	1963.9
47.5°	2185.1	2190.3	2195.1	2191.4	2191.9	2177.2	2162.4	2158.7
50°	2411.0	2413.1	2415.7	2410.5	2411.5	2395.2	2378.3	2378.9
52.5°	2634.3	2644.3	2654.8	2640.6	2637.4	2619.0	2595.3	2585.8
55°	2889.7	2903.9	2891.8	2867.1	2842.3	2817.6	2786.5	2781.2
57.5°	3204.6	3180.4	3142.5	3095.6	3061.4	3026.6	2995.0	2981.9
60°	3642.8	3551.7	3483.2	3413.7	3370.0	3327.3	3285.7	3279.4
62.5°	4262.1	4104.7	3968.3	3824.5	3707.1	3615.4	3542.2	3521.7
65°	5038.4	4666.1	4343.2	4042.0	3780.3	3582.8	3458.5	3403.7
67.5°	5372.3	4637.1	4083.6	3656.0	3313.7	3074.6	2940.3	2873.4
70°	4720.8	3845.6	3243.6	2815.4	2503.7	2248.8	2127.1	2055.5
72.5°	3247.8	2446.3	1934.4	1578.9	1329.8	1116.5	1032.2	1025.9
75°	1458.3	965.9	665.7	513.0	431.8	375.5	358.1	345.0
77.5°	408.2	301.8	269.1	251.7	234.9	215.4	208.0	209.6
80°	198.5	187.5	180.1	169.1	153.8	137.5	130.1	133.2
82.5°	131.7	130.1	134.8	126.9	104.8	89.0	74.8	68.5
85°	80.1	81.1	82.7	83.2	70.6	49.5	33.7	37.9
87.5°	31.6	36.3	39.5	41.1	38.4	23.7	19.0	19.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)