

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: P322668

Luminaire Tested: **GAN-SA4A-827-U-T4FT-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322668
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-17)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4A-827-U-T4FT-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 80 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9814 lumens
Efficiency: N/A
Efficacy: 76.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

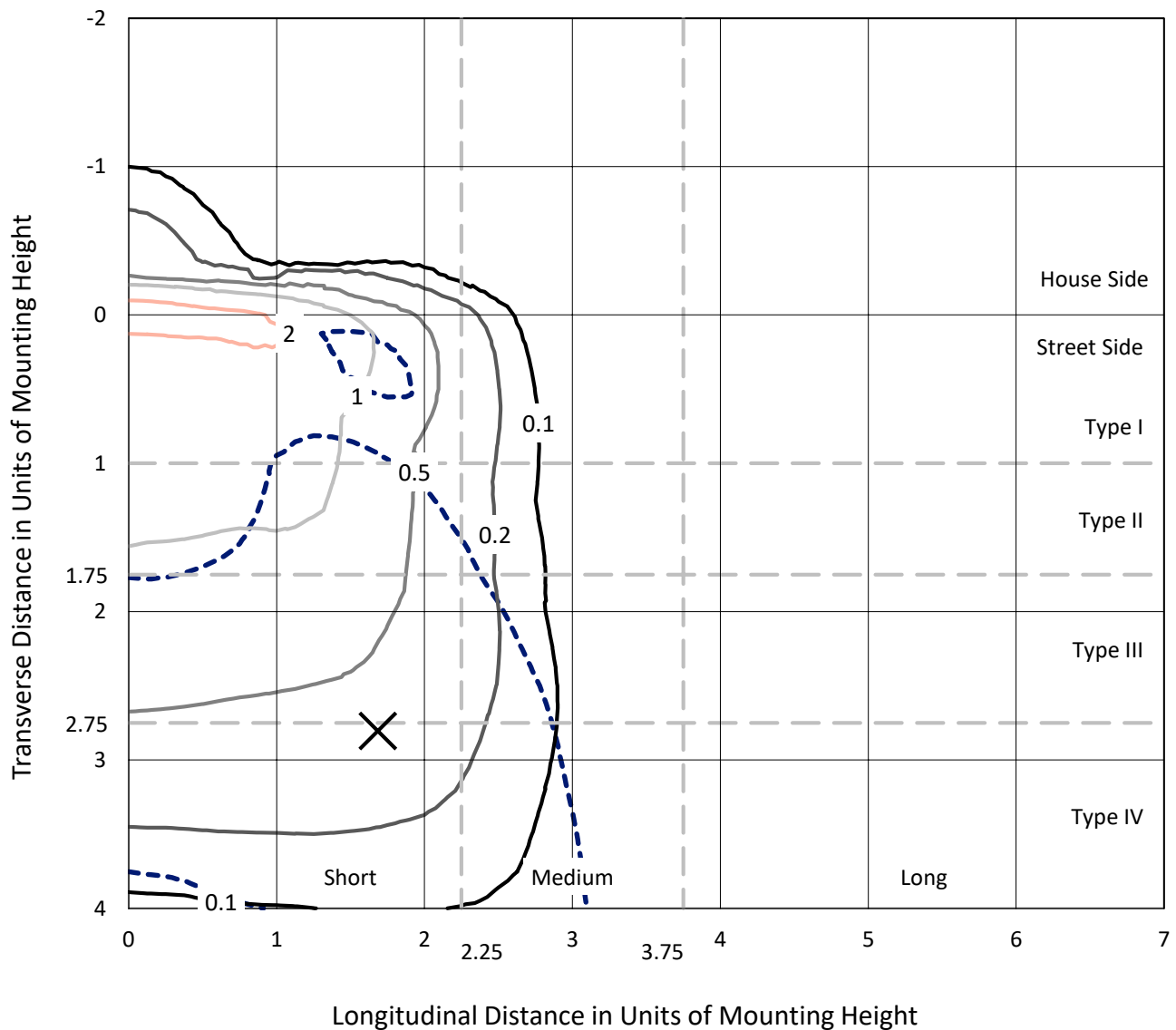
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

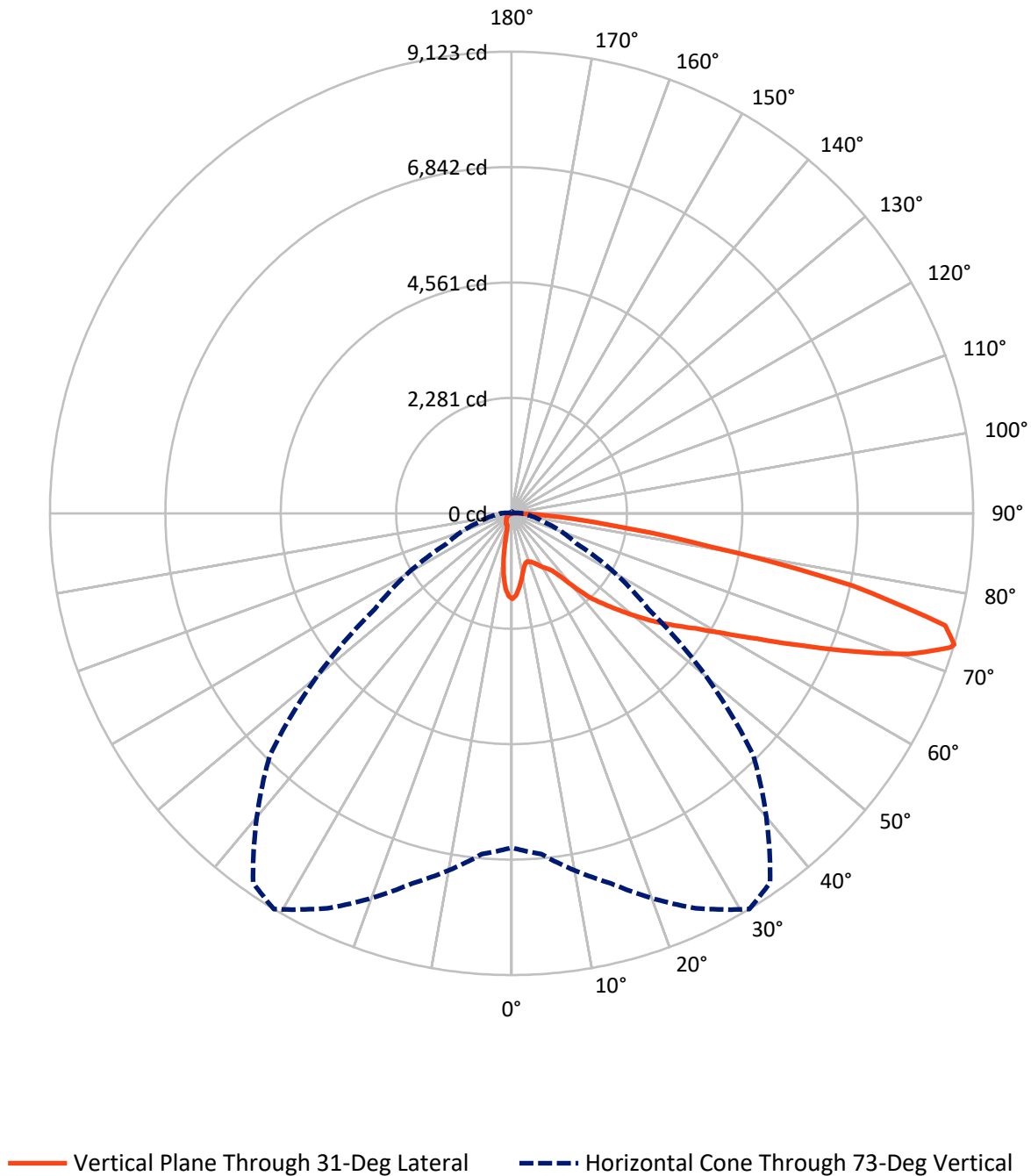
× Max cd
 --- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	894.6	0.0	894.6
	% Fixture	9.1	0.0	9.1
Street Side	Lumens	8919.4	0.0	8919.4
	% Fixture	90.9	0.0	90.9
Total	Lumens	9814.0	0.0	9814.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	1.4
10°-20°	304.0	3.1
20°-30°	455.5	4.6
30°-40°	724.6	7.4
40°-50°	1294.0	13.2
50°-60°	2007.9	20.5
60°-70°	2669.2	27.2
70°-80°	2007.8	20.5
80°-90°	211.0	2.1
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°	9814.0	100.0
0°-180°	9814.0	100.0

Coefficient of Utilization



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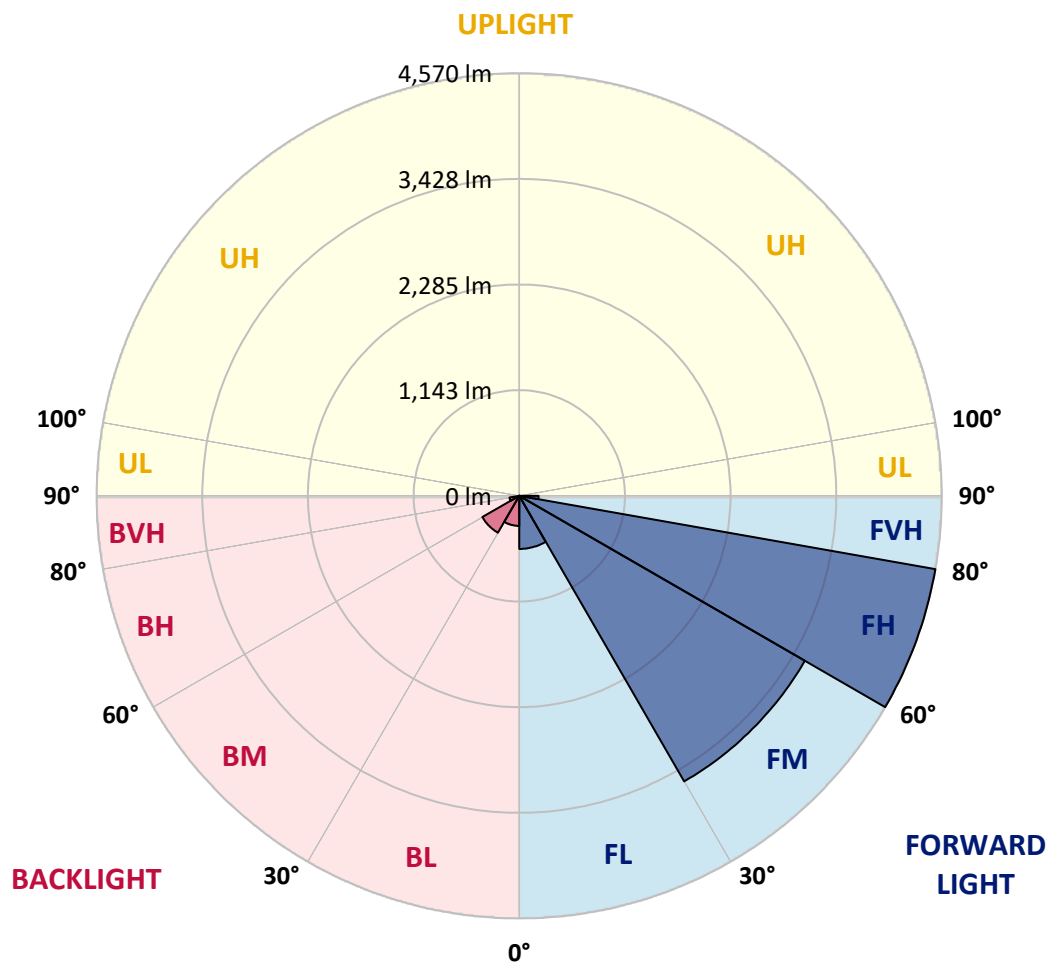
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	574.1	5.9			
FM	(30°-60°)	3566.1	36.3			
FH	(60°-80°)	4570.0	46.6			G2/5000
FVH	(80°-90°)	209.2	2.1			G2/225
BL	(0°-30°)	325.3	3.3	B1/500		
BM	(30°-60°)	460.5	4.7	B1/1000		
BH	(60°-80°)	107.0	1.1	B0/110		G0/110
BVH	(80°-90°)	1.8	0.0			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	31°	35°	45°	55°	65°	75°	85°
0°	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5
2.5°	1600.2	1606.9	1614.1	1615.5	1627.5	1628.0	1645.3	1658.3	1671.2	1683.7	1688.0
5°	1435.9	1447.0	1459.9	1472.9	1498.3	1508.4	1550.7	1593.9	1635.2	1674.6	1693.8
7.5°	1260.6	1273.1	1291.4	1323.5	1351.9	1371.6	1438.3	1515.2	1592.0	1664.5	1706.3
10°	1100.7	1112.2	1131.4	1165.5	1209.2	1236.1	1325.9	1432.6	1545.4	1655.4	1725.0
12.5°	998.9	1005.1	1015.7	1052.2	1091.6	1121.8	1227.5	1359.6	1507.0	1654.9	1755.3
15°	980.2	982.1	973.4	989.8	1020.5	1049.8	1156.9	1300.5	1477.7	1662.6	1794.7
17.5°	1009.9	1009.0	980.2	978.2	1002.7	1026.8	1122.3	1259.7	1457.0	1680.4	1845.6
20°	1055.1	1051.7	1001.8	992.7	1018.6	1041.2	1119.9	1244.3	1449.4	1710.1	1907.5
22.5°	1115.1	1109.4	1031.1	1021.5	1049.3	1072.9	1149.7	1259.2	1456.1	1750.0	1979.5
25°	1189.6	1180.9	1081.5	1070.9	1099.3	1122.8	1203.0	1301.9	1476.3	1798.5	2070.8
27.5°	1273.6	1261.1	1162.2	1134.8	1167.0	1191.5	1274.1	1367.2	1507.9	1849.9	2182.7
30°	1352.8	1336.5	1247.2	1202.0	1241.4	1268.8	1350.9	1445.0	1558.9	1929.1	2335.9
32.5°	1432.6	1414.3	1323.1	1269.3	1304.8	1334.6	1430.2	1552.1	1654.4	2050.1	2539.5
35°	1616.0	1596.8	1484.9	1396.1	1395.6	1412.4	1541.1	1698.6	1780.7	2218.7	2782.5
37.5°	1924.8	1913.8	1807.1	1638.6	1593.4	1574.7	1692.4	1873.4	1962.3	2450.7	3056.7
40°	2262.9	2253.3	2133.7	1981.0	1912.3	1866.2	1909.4	2116.9	2218.7	2734.0	3336.7
42.5°	2644.7	2599.1	2385.8	2340.2	2278.7	2243.7	2204.8	2417.0	2533.7	3042.3	3614.3
45°	2991.4	2914.6	2638.0	2568.8	2554.9	2563.5	2585.1	2820.4	2888.2	3408.7	3890.9
47.5°	3197.9	3137.4	2925.1	2858.9	2855.0	2912.2	3075.4	3276.2	3241.1	3728.1	4134.4
50°	3394.3	3339.6	3163.3	3179.7	3197.4	3275.2	3632.0	3744.9	3563.4	4017.7	4357.7
52.5°	3553.3	3469.7	3377.5	3469.2	3556.6	3682.0	4206.4	4165.6	3792.0	4248.2	4548.8
55°	3645.0	3607.1	3651.7	3743.9	3908.2	4111.8	4748.6	4515.7	3959.1	4458.5	4676.1
57.5°	3981.2	3906.7	3995.6	4075.3	4289.5	4574.3	5213.0	4776.5	4079.6	4588.7	4705.4
60°	4387.9	4327.9	4380.3	4512.8	4801.9	5136.6	5647.1	4989.2	4142.5	4672.2	4629.5
62.5°	5035.3	4956.1	4923.4	5071.8	5455.0	5820.5	5976.6	5136.6	4128.6	4635.3	4369.2
65°	5902.6	5820.5	5674.5	5809.0	6296.4	6554.3	6344.9	5167.8	4032.6	4336.1	3711.3
67.5°	6791.1	6731.5	6606.6	6833.3	7273.2	7356.3	6734.4	5092.0	3723.3	3515.8	2622.1
70°	7377.9	7352.5	7433.6	7935.0	8327.3	8303.3	7091.7	4684.2	2902.1	2162.0	1297.1
72.5°	6954.8	7076.8	7676.1	8585.2	9064.5	8868.6	6908.2	3597.0	1658.7	831.8	375.1
73°	6604.2	6760.3	7567.1	8609.7	9122.6	8907.9	6754.1	3301.6	1413.8	656.5	284.3
75°	4594.4	4786.1	6264.7	8018.5	8850.8	8487.3	5629.8	2020.8	655.0	291.0	114.8
77.5°	2230.7	2372.4	3449.6	5793.6	6883.3	6631.1	3504.8	753.0	295.8	182.0	52.8
80°	832.7	925.9	1497.4	2948.7	3977.8	4082.0	1541.6	284.8	196.9	146.5	26.9
82.5°	218.0	243.0	552.3	1314.9	2038.6	2133.7	486.0	143.6	144.1	120.5	16.3
85°	69.6	79.7	172.4	590.2	960.5	843.3	126.8	69.6	104.7	89.8	9.1
87.5°	8.6	11.0	54.7	138.8	211.8	117.7	19.7	20.7	44.7	49.9	5.3
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°	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5	1688.5
2.5°	1692.4	1690.0	1690.4	1678.0	1669.8	1653.5	1636.7	1629.0	1620.8	1617.4	1620.8
5°	1701.0	1696.7	1684.2	1645.8	1605.0	1552.1	1502.7	1465.2	1418.1	1405.2	1418.6
7.5°	1714.5	1705.8	1669.3	1591.0	1500.3	1399.4	1286.1	1203.5	1135.8	1092.1	1107.9
10°	1734.1	1717.8	1644.3	1511.3	1349.0	1170.3	1009.5	884.1	795.3	758.8	757.3
12.5°	1767.3	1736.5	1613.6	1407.6	1164.1	925.9	715.1	579.2	507.1	460.5	459.6
15°	1803.8	1758.6	1574.7	1283.2	949.0	663.2	460.5	357.3	310.7	295.8	293.9
17.5°	1848.4	1784.1	1524.3	1130.0	723.7	439.4	300.6	270.9	268.9	267.5	267.5
20°	1904.6	1814.3	1459.4	954.7	513.4	293.4	255.5	257.4	258.4	256.4	256.9
22.5°	1969.9	1845.1	1382.1	766.5	347.2	245.4	244.4	246.8	247.8	246.8	247.3
25°	2045.8	1880.6	1288.0	569.1	250.7	232.9	235.3	238.7	241.1	241.1	241.1
27.5°	2139.9	1923.8	1174.7	397.2	216.6	219.9	226.7	232.9	236.3	237.2	237.2
30°	2262.4	1977.6	1038.8	272.3	196.9	202.7	215.1	227.2	233.4	234.4	234.8
32.5°	2417.0	2038.1	881.2	201.2	180.1	184.4	197.9	218.0	230.0	232.0	232.0
35°	2594.2	2108.2	711.7	175.3	168.1	169.5	180.1	203.1	224.3	229.6	230.0
37.5°	2788.3	2177.4	541.2	163.8	158.0	158.0	165.7	185.4	210.3	226.7	228.6
40°	2969.3	2219.2	379.4	154.6	148.9	148.9	155.6	170.0	193.5	218.0	223.3
42.5°	3136.4	2233.6	264.1	146.0	140.2	141.7	147.4	159.0	176.7	201.2	206.0
45°	3308.4	2231.2	192.6	135.9	131.6	135.9	140.2	148.9	161.8	175.8	176.7
47.5°	3438.0	2211.0	152.7	126.3	123.4	129.2	133.0	138.8	146.0	145.0	145.0
50°	3559.5	2162.0	122.9	113.3	115.3	122.0	123.9	125.8	126.3	117.2	116.2
52.5°	3651.7	2085.7	98.4	99.4	107.1	113.8	111.9	109.0	104.2	93.2	91.2
55°	3682.5	1938.7	77.3	82.1	95.1	103.7	96.5	90.3	81.2	72.0	70.1
57.5°	3626.8	1749.0	62.9	63.9	80.2	87.4	79.2	72.0	62.0	54.3	52.8
60°	3508.6	1538.2	51.9	48.0	62.0	68.2	62.9	55.7	46.6	40.8	40.3
62.5°	3274.3	1313.5	42.7	37.5	47.1	52.3	49.0	43.7	36.0	32.2	31.7
65°	2781.5	1050.8	34.6	30.3	36.5	40.8	37.9	34.1	28.3	25.5	25.0
67.5°	1941.6	710.3	28.3	25.0	28.8	32.2	29.8	27.9	22.6	22.1	22.6
70°	936.5	342.4	23.5	20.2	22.6	25.0	24.0	22.6	21.6	25.0	28.8
72.5°	268.5	114.8	18.7	16.8	18.2	19.7	20.7	20.2	23.5	30.3	35.1
73°	206.5	92.7	17.8	15.8	17.3	19.2	20.2	19.7	24.0	30.7	35.1
75°	88.4	44.7	13.4	13.0	14.4	16.8	17.8	17.8	24.0	31.2	33.6
77.5°	39.9	24.0	8.6	10.1	12.5	13.4	14.9	14.9	19.2	24.0	24.0
80°	22.6	13.0	6.7	7.7	9.1	9.1	9.1	8.2	8.6	9.6	10.6
82.5°	14.4	8.6	5.3	6.2	5.8	4.8	3.8	3.8	3.4	3.8	4.8
85°	8.2	4.8	4.8	3.8	2.4	1.9	2.4	1.9	0.5	0.0	0.5
87.5°	4.8	2.9	1.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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)