

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: P322816

Luminaire Tested: **GAN-SA2D-727-U-T4W-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P322816
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-19)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9624 lumens
Efficiency: N/A
Efficacy: 74.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

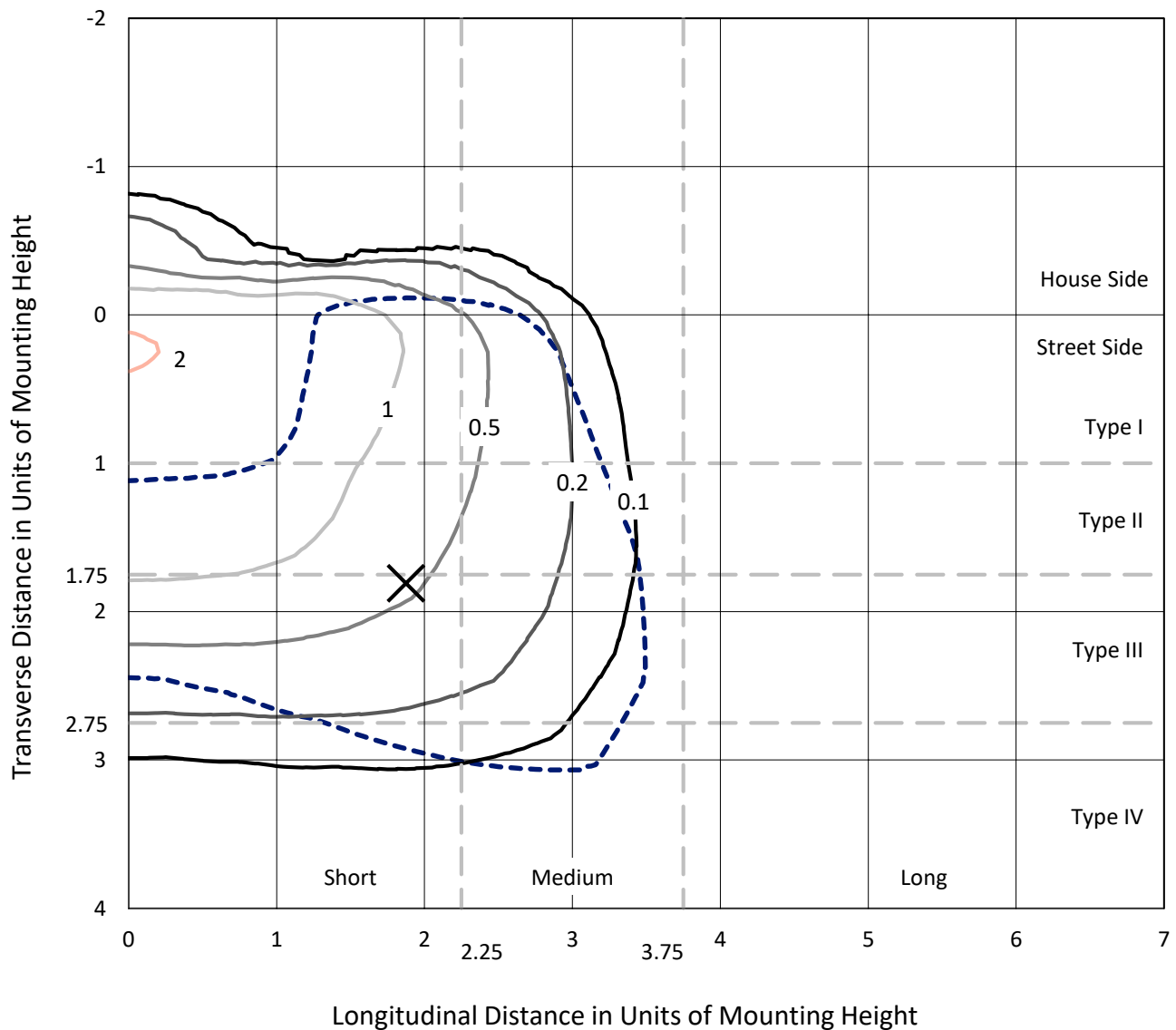
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P322816
 CATALOG NUMBER: GAN-SA2D-727-U-T4W-HSS

Iso-Footcandle Lines of Horizontal Illumination

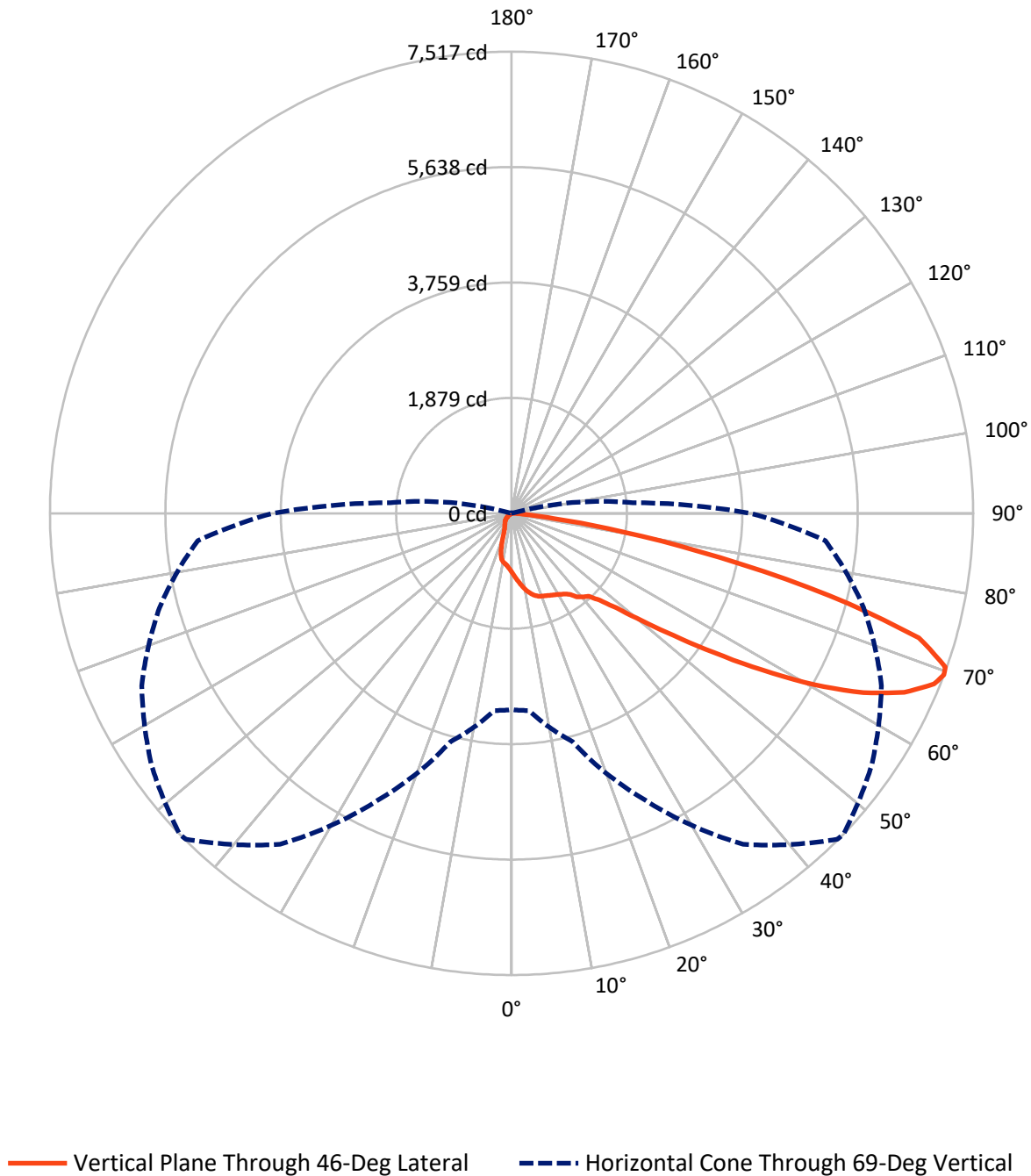
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.2 fc
 Type IV - Short - N/A

REPORT NUMBER: P322816
CATALOG NUMBER: GAN-SA2D-727-U-T4W-HSS

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	987.7	0.0	987.7
	% Fixture	10.3	0.0	10.3
Street Side	Lumens	8636.3	0.0	8636.3
	% Fixture	89.7	0.0	89.7
Total	Lumens	9624.0	0.0	9624.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	1.0
10°-20°	291.2	3.0
20°-30°	457.9	4.8
30°-40°	656.7	6.8
40°-50°	1135.0	11.8
50°-60°	2242.3	23.3
60°-70°	3133.7	32.6
70°-80°	1513.9	15.7
80°-90°	97.3	1.0
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°	9624.0	100.0
0°-180°	9624.0	100.0

Coefficient of Utilization



REPORT NUMBER: P322816

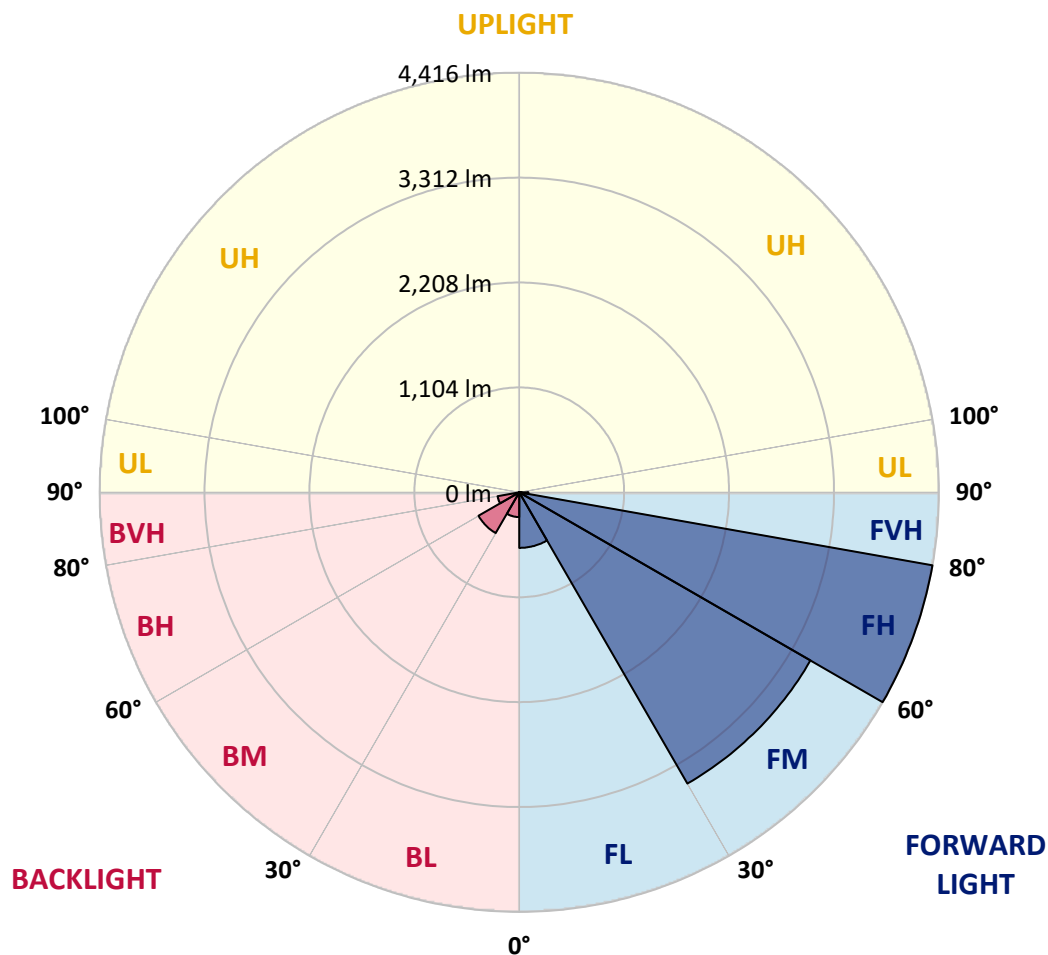
CATALOG NUMBER: GAN-SA2D-727-U-T4W-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	584.8	6.1			
FM	(30°-60°)	3539.0	36.8			
FH	(60°-80°)	4416.1	45.9			G2/5000
FVH	(80°-90°)	96.5	1.0			G1/100
BL	(0°-30°)	260.3	2.7	B1/500		
BM	(30°-60°)	495.0	5.1	B1/1000		
BH	(60°-80°)	231.6	2.4	B1/500		G1/500
BVH	(80°-90°)	0.8	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





REPORT NUMBER: P322816

CATALOG NUMBER: GAN-SA2D-727-U-T4W-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	46°	55°	65°	75°	85°
0°	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3
2.5°	1071.2	1069.9	1063.6	1060.9	1045.5	1036.5	1032.9	1021.6	1005.4	989.1	971.1
5°	1193.1	1192.6	1180.9	1169.6	1140.7	1113.6	1108.7	1082.5	1046.0	1011.7	977.4
7.5°	1317.6	1311.7	1300.0	1278.3	1236.4	1193.1	1189.0	1152.0	1100.1	1050.5	1001.3
10°	1423.2	1419.6	1404.2	1371.3	1322.1	1272.9	1268.0	1222.4	1163.7	1102.8	1040.1
12.5°	1505.3	1502.6	1482.3	1441.2	1388.9	1337.9	1331.1	1290.5	1227.8	1159.7	1085.7
15°	1555.4	1554.1	1529.2	1485.5	1434.0	1389.8	1383.9	1348.3	1290.1	1218.8	1135.3
17.5°	1567.1	1567.6	1541.9	1497.6	1455.2	1423.6	1419.1	1392.1	1343.3	1272.5	1184.9
20°	1541.0	1546.4	1523.4	1485.0	1458.8	1442.1	1438.5	1422.3	1381.2	1314.4	1224.7
22.5°	1504.0	1506.7	1490.9	1465.2	1454.3	1457.5	1455.7	1446.7	1411.9	1350.5	1263.9
25°	1481.4	1481.4	1471.9	1450.3	1457.5	1476.9	1477.3	1475.5	1448.0	1394.8	1311.7
27.5°	1480.5	1477.8	1467.0	1450.7	1470.6	1500.4	1502.2	1514.3	1497.2	1448.5	1371.3
30°	1516.6	1513.4	1490.4	1469.2	1494.5	1526.5	1531.0	1557.7	1549.1	1506.7	1437.6
32.5°	1601.0	1589.7	1538.7	1504.0	1522.9	1561.3	1567.1	1609.6	1623.1	1578.4	1501.7
35°	1716.5	1680.8	1607.3	1569.8	1571.7	1611.8	1617.2	1679.5	1719.7	1644.3	1551.3
37.5°	1875.8	1858.2	1738.6	1638.4	1646.6	1707.5	1723.3	1791.0	1779.7	1680.4	1607.7
40°	2225.0	2197.5	2070.3	1830.7	1718.3	1785.1	1790.0	1826.1	1827.0	1762.1	1725.1
42.5°	2700.6	2689.4	2555.3	2179.5	1859.5	1837.0	1846.0	1906.9	1975.1	1934.4	1932.6
45°	3227.2	3221.4	3079.2	2642.4	2145.2	2007.1	2018.4	2100.0	2230.5	2239.5	2296.8
47.5°	3650.9	3648.2	3566.6	3159.1	2582.4	2295.4	2299.0	2385.7	2614.9	2728.2	2819.8
50°	4037.2	4050.3	3985.8	3718.2	3178.0	2747.1	2738.5	2796.3	3164.5	3350.0	3463.7
52.5°	4574.2	4592.7	4411.7	4239.8	3803.0	3307.6	3300.8	3361.2	3825.1	3964.1	3984.4
55°	5048.4	5016.8	4873.8	4824.2	4565.1	3999.7	3997.9	4051.2	4464.1	4523.2	4560.6
57.5°	5257.8	5245.6	5314.6	5428.4	5363.4	4817.8	4813.8	4773.2	5035.8	5042.1	5157.2
60°	5390.0	5404.9	5616.5	5967.1	6129.1	5698.2	5672.0	5424.3	5581.8	5567.8	5691.0
62.5°	5290.7	5320.1	5700.9	6285.2	6702.2	6466.6	6429.6	6020.8	6048.4	6000.1	6114.7
65°	4763.7	4809.3	5433.3	6225.2	6986.5	7067.2	7029.8	6547.4	6418.8	6339.4	6275.8
67.5°	3868.0	3895.1	4546.6	5703.2	6858.3	7425.5	7417.8	7009.0	6698.6	6282.1	5788.4
69°	3196.5	3223.2	3850.4	5153.6	6576.3	7502.2	7517.1	7157.0	6645.3	5933.7	5128.7
70°	2707.4	2735.8	3320.2	4682.5	6249.2	7466.6	7493.2	7143.0	6492.8	5530.3	4549.8
72.5°	1420.0	1444.4	2044.1	3225.9	5094.4	6856.1	6936.8	6539.3	5503.7	4016.4	2690.3
75°	446.3	460.3	798.2	1686.3	3488.0	5330.9	5349.4	5129.6	3908.1	2209.2	1120.4
77.5°	170.1	166.1	265.8	621.4	1763.4	3356.7	3470.0	3205.6	2050.9	781.1	258.6
80°	91.6	92.1	138.1	257.2	754.5	1725.1	1820.7	1553.6	728.7	243.7	59.6
82.5°	39.7	41.5	77.6	136.3	346.5	636.2	684.1	569.5	278.4	163.8	22.1
85°	8.6	9.5	37.5	74.0	141.2	178.7	187.3	184.6	177.3	127.2	8.6
87.5°	0.0	0.0	16.7	26.6	35.6	40.6	35.6	46.5	97.9	85.7	4.5
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°	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3	964.3
2.5°	965.2	957.1	943.1	927.7	916.9	905.6	896.6	892.5	888.0	884.9	888.9
5°	963.4	947.6	920.5	894.3	875.4	860.1	847.4	842.5	837.5	833.9	833.4
7.5°	979.2	957.1	915.6	877.2	847.9	827.1	810.0	802.7	796.9	794.2	791.9
10°	1009.4	981.0	925.5	875.4	837.5	802.3	765.3	736.9	718.4	709.8	706.6
12.5°	1048.7	1013.0	944.4	884.9	829.8	762.1	683.6	615.9	572.2	557.7	549.2
15°	1094.7	1050.5	969.3	897.1	801.8	678.2	545.1	456.6	416.0	407.9	398.9
17.5°	1138.9	1090.2	999.0	899.3	740.5	541.9	399.3	339.3	323.5	329.0	330.3
20°	1177.7	1129.4	1028.4	879.5	629.0	406.6	309.1	294.2	300.1	310.4	312.3
22.5°	1217.0	1167.3	1055.4	827.1	486.4	308.6	278.4	282.0	287.9	298.3	300.1
25°	1264.8	1213.4	1080.7	731.0	365.0	262.6	264.4	269.8	275.7	285.2	286.1
27.5°	1319.9	1271.6	1097.4	606.0	270.7	241.4	247.3	255.4	261.3	270.3	272.1
30°	1393.0	1348.3	1102.8	476.5	227.0	222.5	225.2	235.1	243.7	251.8	253.1
32.5°	1461.5	1424.1	1084.8	359.6	210.3	204.9	204.9	210.7	220.7	228.3	230.1
35°	1524.7	1500.4	1027.0	263.1	197.6	188.6	184.1	184.1	190.4	196.7	198.5
37.5°	1608.2	1607.3	933.6	209.8	185.5	175.1	165.6	158.4	156.1	157.5	158.4
40°	1751.2	1752.6	811.8	188.2	175.1	161.1	146.7	133.6	121.4	117.3	116.9
42.5°	1974.6	1954.3	684.1	177.8	166.1	146.7	125.0	107.4	88.4	82.6	82.1
45°	2329.3	2208.8	548.7	168.3	156.6	130.4	103.3	79.4	64.1	59.6	59.6
47.5°	2845.9	2543.2	425.1	157.9	143.9	111.9	78.1	57.3	46.9	44.7	45.1
50°	3380.2	2870.8	325.8	144.8	128.6	92.5	57.8	41.5	35.6	35.6	36.1
52.5°	3854.0	3110.8	254.0	130.9	109.7	72.6	43.8	32.5	29.8	29.3	29.8
55°	4297.6	3265.6	194.5	114.6	87.1	54.1	33.4	26.6	24.8	23.9	23.5
57.5°	4725.3	3342.3	145.7	92.5	63.2	39.3	26.6	22.6	20.8	19.4	19.0
60°	5010.1	3280.0	100.2	68.1	43.8	28.4	22.1	19.4	17.1	15.8	15.3
62.5°	5170.7	3109.9	64.5	49.2	31.1	21.2	17.6	16.2	13.1	11.7	11.7
65°	5105.7	2829.2	45.1	35.2	22.6	15.8	13.1	13.1	9.5	7.7	7.2
67.5°	4524.5	2390.2	34.3	26.2	16.2	11.7	9.9	11.3	5.9	3.6	3.6
69°	3892.8	1980.9	29.3	21.7	13.5	9.5	8.6	10.4	4.1	2.7	2.3
70°	3383.4	1708.8	26.6	19.0	11.3	8.1	7.7	9.9	4.1	2.3	1.8
72.5°	2024.2	953.0	20.3	13.5	7.2	6.3	6.3	11.3	4.1	2.3	1.8
75°	818.1	335.7	14.9	9.5	5.4	5.4	7.7	14.4	3.6	1.8	1.4
77.5°	185.5	73.6	8.6	5.9	3.6	5.4	9.0	11.3	2.3	0.9	0.0
80°	45.1	18.0	5.4	3.6	2.3	4.1	6.8	6.3	0.5	0.0	0.0
82.5°	14.9	6.3	2.3	1.8	0.5	1.4	3.2	1.8	0.0	0.0	0.0
85°	6.3	3.6	0.9	0.5	0.0	0.0	0.5	0.0	0.0	0.0	0.0
87.5°	4.1	1.4	0.0	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)