

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: P321516

Luminaire Tested: **GAN-SA2B-727-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321516
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-11)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-727-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7520 lumens
Efficiency: N/A
Efficacy: 88.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

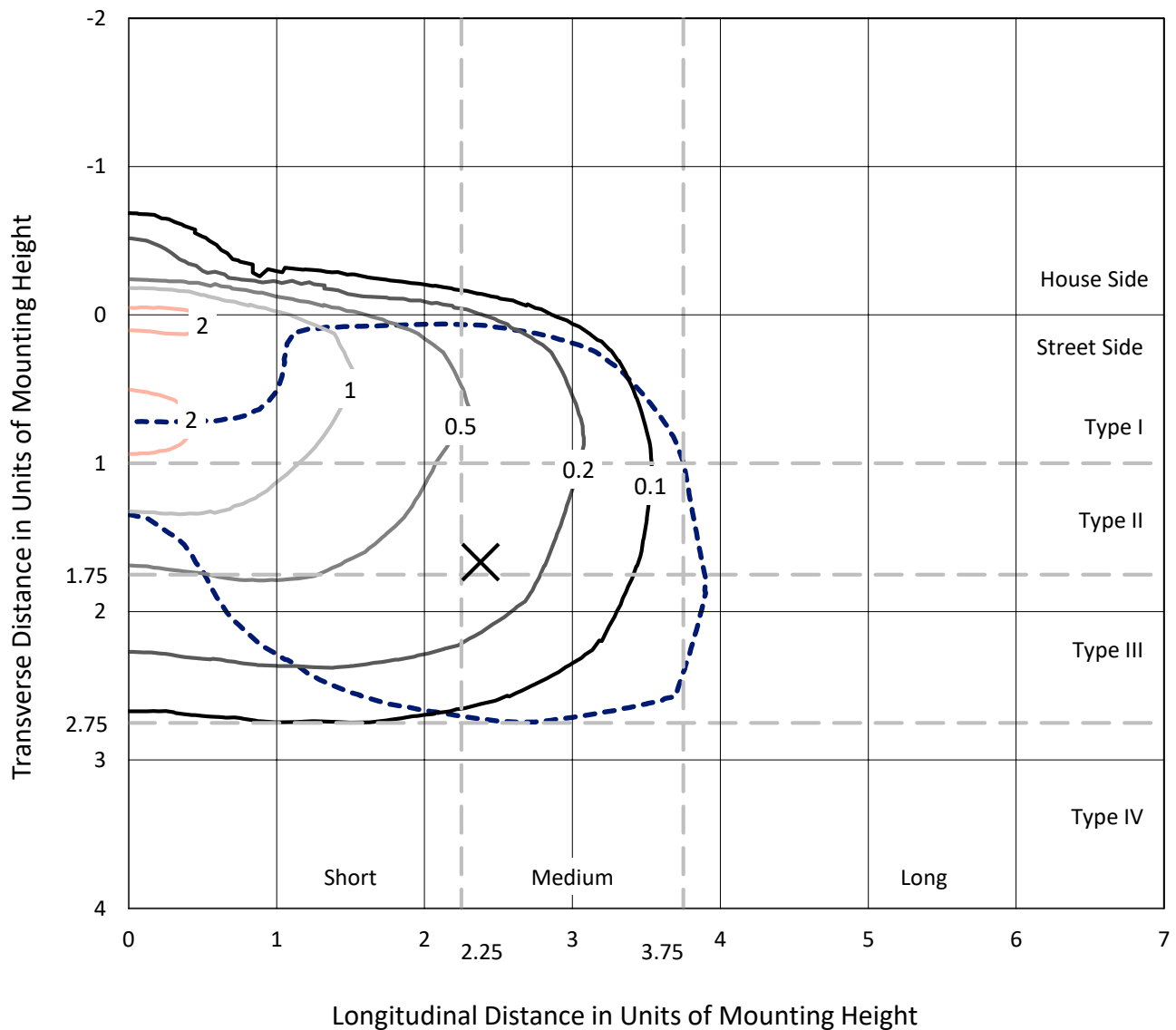
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P321516
 CATALOG NUMBER: GAN-SA2B-727-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

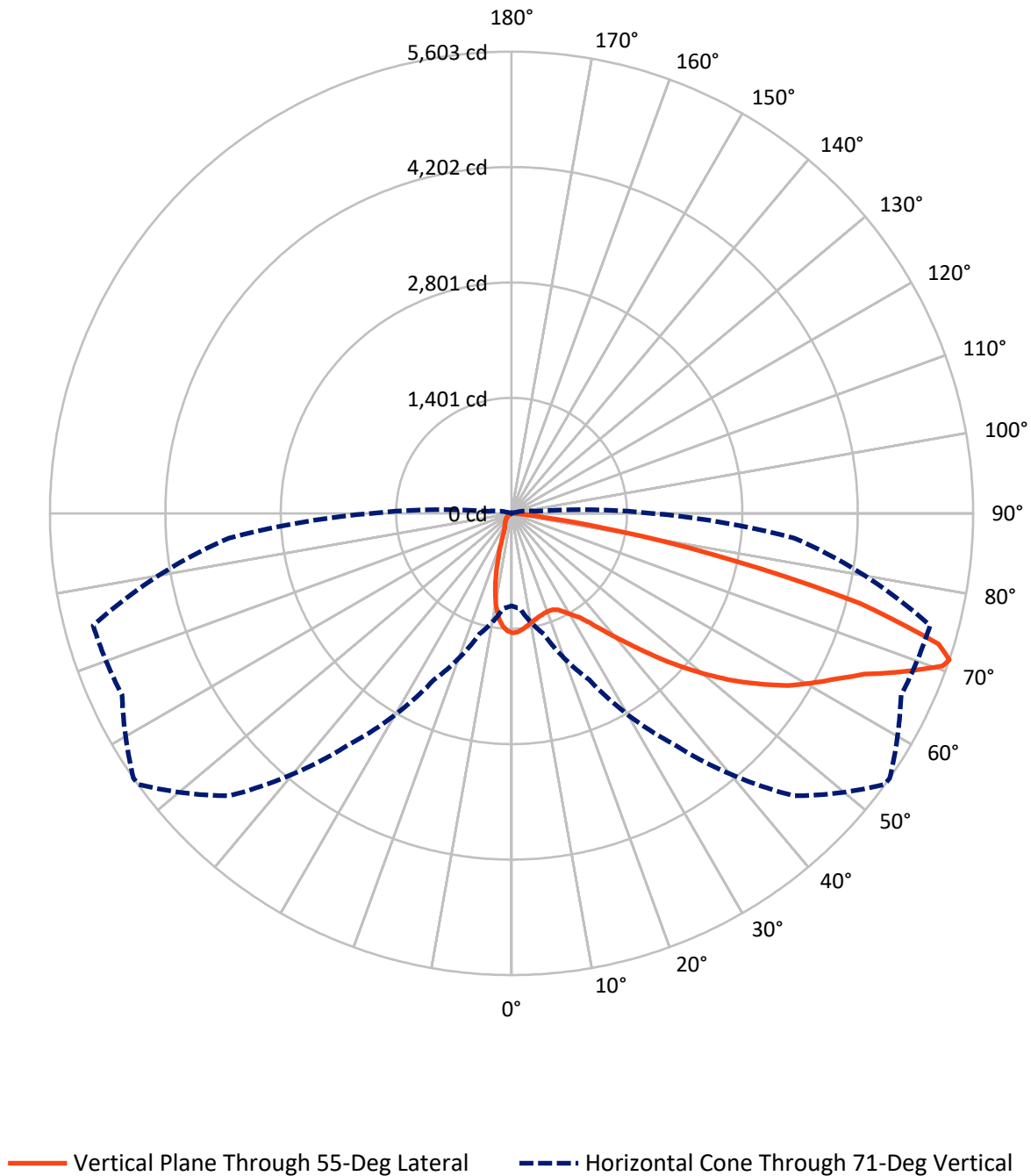
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Medium - N/A

REPORT NUMBER: P321516
CATALOG NUMBER: GAN-SA2B-727-U-T3R-HSS

Luminous Intensity Polar Plot



REPORT NUMBER: P321516

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	595.4	0.0	595.4
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	6924.6	0.0	6924.6
	% Fixture	92.1	0.0	92.1
Total	Lumens	7520.0	0.0	7520.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.7	1.6
10°-20°	279.2	3.7
20°-30°	448.6	6.0
30°-40°	762.2	10.1
40°-50°	1183.1	15.7
50°-60°	1590.6	21.2
60°-70°	1945.8	25.9
70°-80°	1137.7	15.1
80°-90°	49.2	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°	7520.0	100.0
0°-180°	7520.0	100.0

Coefficient of Utilization



REPORT NUMBER: P321516

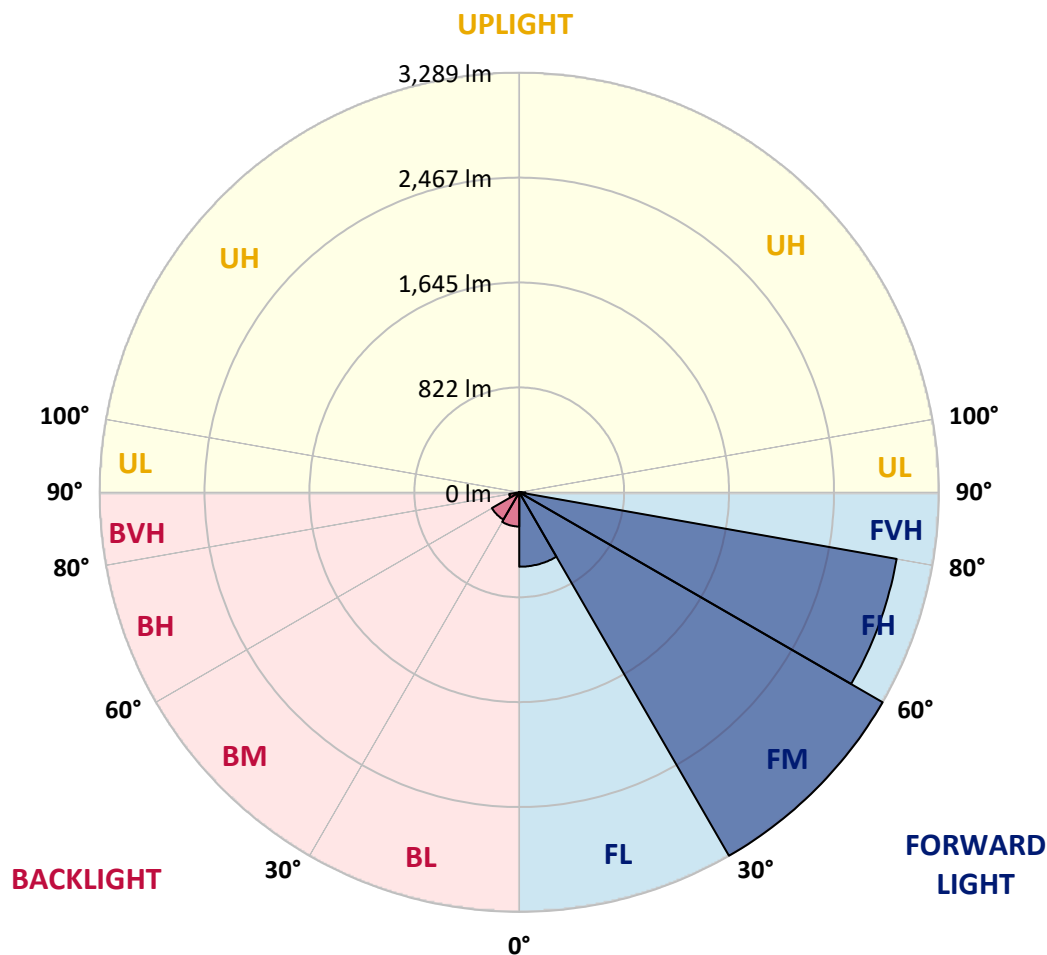
CATALOG NUMBER: GAN-SA2B-727-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	583.4	7.8			
FM	(30°-60°)	3289.0	43.7			
FH	(60°-80°)	3003.7	39.9			G2/5000
FVH	(80°-90°)	48.4	0.6			G1/100
BL	(0°-30°)	268.0	3.6	B1/500		
BM	(30°-60°)	246.9	3.3	B1/1000		
BH	(60°-80°)	79.8	1.1	B0/110		G0/110
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 III Medium



REPORT NUMBER: P321516

CATALOG NUMBER: GAN-SA2B-727-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1450.3	1450.3	1450.3	1450.3	1450.3	1450.3	1450.3	1450.3	1450.3	1450.3	1450.3
2.5°	1407.7	1409.4	1415.5	1418.2	1424.6	1435.4	1440.8	1441.1	1449.9	1453.3	1456.0
5°	1308.1	1318.2	1328.4	1339.2	1358.8	1384.8	1410.4	1412.8	1441.1	1462.1	1473.2
7.5°	1222.3	1231.5	1243.6	1260.8	1288.5	1329.4	1372.3	1377.3	1431.0	1478.6	1503.6
10°	1134.2	1141.6	1159.2	1184.5	1222.7	1277.4	1335.1	1343.6	1421.9	1500.9	1544.8
12.5°	1040.0	1044.4	1065.7	1102.1	1158.2	1227.7	1303.7	1314.9	1416.2	1526.6	1593.4
15°	968.4	970.4	990.7	1028.5	1092.7	1183.2	1279.4	1292.9	1417.5	1557.3	1646.4
17.5°	950.2	951.2	962.0	988.0	1044.7	1143.3	1260.2	1276.7	1421.6	1587.3	1699.8
20°	1024.1	1017.0	1005.9	1001.8	1026.2	1119.4	1248.7	1267.2	1427.0	1614.0	1747.7
22.5°	1227.1	1206.1	1159.9	1098.1	1060.6	1121.0	1251.7	1270.3	1444.2	1646.8	1803.1
25°	1528.3	1499.2	1420.5	1299.0	1182.2	1169.7	1277.0	1295.9	1477.6	1685.9	1856.1
27.5°	1871.0	1842.3	1746.1	1572.5	1373.3	1265.9	1335.1	1352.7	1527.2	1720.7	1896.6
30°	2199.2	2191.1	2077.6	1880.4	1613.7	1421.9	1410.1	1424.9	1564.1	1741.7	1928.7
32.5°	2477.4	2464.6	2373.4	2181.6	1888.9	1609.3	1498.2	1502.6	1591.7	1768.7	1970.6
35°	2735.4	2719.5	2639.5	2458.2	2171.2	1838.2	1633.9	1627.5	1652.2	1823.0	2031.4
37.5°	2960.6	2975.1	2886.3	2713.8	2424.4	2076.3	1817.0	1797.7	1746.7	1911.5	2119.5
40°	3149.0	3149.0	3102.8	2958.9	2697.9	2322.4	2023.9	1998.6	1888.9	2047.9	2231.3
42.5°	3216.9	3231.4	3248.6	3167.3	2942.7	2578.4	2254.6	2228.2	2089.1	2241.4	2372.4
45°	3221.0	3243.9	3332.1	3331.7	3163.9	2832.6	2514.6	2502.1	2345.7	2489.9	2547.3
47.5°	3163.9	3192.6	3337.8	3420.2	3339.1	3069.3	2798.9	2783.3	2647.3	2794.5	2730.3
50°	3075.8	3107.5	3276.3	3455.0	3458.3	3275.3	3098.4	3075.1	2979.2	3142.6	2919.4
52.5°	2918.1	2979.5	3221.3	3463.1	3536.7	3453.3	3383.4	3373.2	3350.6	3477.9	3070.0
55°	2580.8	2649.0	3083.2	3465.8	3609.3	3611.0	3650.5	3653.2	3698.8	3791.3	3182.1
57.5°	2421.4	2459.9	2842.1	3478.6	3717.0	3789.9	3922.6	3943.6	4014.1	4088.8	3310.1
60°	2321.1	2366.7	2723.2	3461.0	3886.2	4024.6	4174.9	4181.9	4257.6	4395.7	3483.3
62.5°	2241.1	2286.0	2648.3	3393.5	4076.3	4306.9	4421.3	4422.0	4478.8	4761.4	3680.2
65°	2043.5	2081.3	2496.7	3317.5	4201.9	4586.1	4707.7	4703.3	4749.6	5147.0	3908.8
67.5°	1757.9	1786.9	2187.0	3029.5	4154.6	4840.0	5139.9	5125.4	5069.3	5480.3	3998.6
70°	1359.1	1369.6	1723.8	2524.7	3711.6	4937.6	5557.6	5550.2	5265.5	5420.5	3669.4
71°	1123.4	1157.8	1519.1	2228.2	3414.8	4847.5	5598.1	5602.5	5216.2	5257.7	3442.8
72.5°	652.4	681.7	1101.1	1711.3	2899.2	4471.3	5388.1	5419.8	4985.9	4782.3	2940.7
75°	139.8	149.6	408.2	828.3	1594.8	3133.8	4252.9	4366.0	4063.8	3253.4	1772.4
77.5°	97.2	105.0	174.9	375.8	527.1	1548.5	2641.9	2769.5	2427.8	1222.7	567.3
80°	77.0	85.8	136.4	185.7	142.5	499.4	1237.5	1315.5	809.7	272.8	95.6
82.5°	42.9	51.0	106.4	100.3	54.7	94.9	346.4	391.7	162.1	55.0	22.6
85°	12.5	15.2	68.5	72.9	23.3	18.2	59.1	73.3	30.7	14.5	10.1
87.5°	0.0	0.0	33.1	28.0	6.8	2.7	5.4	6.1	6.1	6.1	6.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P321516

CATALOG NUMBER: GAN-SA2B-727-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1450.3	1450.3	1450.3	1450.3	1450.3	1450.3	1450.3	1450.3	1450.3	1450.3	1450.3
2.5°	1456.0	1458.4	1449.9	1438.8	1427.0	1412.4	1397.2	1385.4	1385.1	1379.3	1373.6
5°	1473.9	1472.5	1449.2	1413.8	1371.9	1328.4	1286.8	1239.9	1224.4	1205.1	1198.7
7.5°	1507.0	1497.5	1448.2	1370.6	1278.7	1187.6	1093.4	998.5	957.9	921.5	915.1
10°	1548.5	1530.6	1441.8	1305.7	1137.2	969.1	826.9	697.9	641.2	597.7	595.6
12.5°	1591.7	1564.4	1423.9	1207.8	951.9	715.5	551.7	424.8	377.5	347.1	349.8
15°	1637.0	1596.1	1385.4	1075.8	740.8	485.6	339.0	264.4	245.5	237.7	239.7
17.5°	1683.2	1618.1	1331.7	916.8	532.5	313.4	234.7	213.7	213.7	215.4	216.1
20°	1723.4	1629.9	1252.7	738.5	361.0	228.3	205.3	202.3	203.9	206.6	207.0
22.5°	1763.3	1630.6	1149.7	557.8	252.6	199.9	195.5	194.2	195.2	198.2	198.5
25°	1795.7	1622.5	1020.8	396.8	201.6	188.4	186.4	185.7	186.4	190.1	190.1
27.5°	1808.9	1593.1	863.4	278.9	180.6	175.6	174.9	175.6	176.6	179.3	179.6
30°	1810.2	1541.8	691.9	201.9	163.8	158.4	159.7	162.1	161.1	160.4	161.1
32.5°	1813.6	1482.3	524.7	166.1	149.6	141.1	139.5	139.5	135.4	133.0	131.7
35°	1824.7	1412.4	380.5	149.2	135.1	125.3	118.9	111.4	103.7	99.6	98.6
37.5°	1842.3	1339.2	272.5	138.1	122.2	111.1	98.9	85.8	74.6	71.6	71.6
40°	1874.4	1263.5	201.6	129.3	112.1	98.3	80.0	62.8	52.7	51.0	51.0
42.5°	1925.0	1183.8	160.7	121.6	103.3	85.1	61.1	45.6	38.2	37.1	36.8
45°	1977.7	1096.1	140.5	114.1	93.9	69.9	45.2	33.8	29.4	28.4	28.4
47.5°	2030.4	1002.5	130.7	107.0	84.8	54.4	33.8	26.7	24.6	24.6	25.0
50°	2074.9	904.9	123.6	99.3	72.9	41.2	26.7	22.6	21.9	23.3	23.6
52.5°	2086.1	809.0	114.8	89.5	58.4	31.4	21.9	19.9	19.9	19.9	19.9
55°	2079.3	734.8	103.3	77.3	43.2	25.0	18.9	17.6	17.2	17.2	17.2
57.5°	2102.3	690.9	82.7	60.1	31.1	20.3	16.5	15.5	14.9	14.5	14.5
60°	2148.5	662.2	59.1	43.2	23.3	16.9	14.2	13.2	12.2	11.5	11.5
62.5°	2210.0	637.2	43.9	32.1	17.9	13.5	11.8	10.8	9.5	8.8	8.8
65°	2257.3	592.6	33.4	24.0	13.5	10.8	9.1	8.8	6.8	6.1	5.7
67.5°	2185.0	494.7	27.0	17.6	10.1	8.4	7.1	6.8	4.1	3.4	3.4
70°	1874.0	344.4	21.6	12.8	7.4	6.8	5.7	4.4	3.0	2.7	2.7
71°	1699.5	287.7	19.6	10.8	6.4	6.4	5.4	3.7	2.7	2.4	2.4
72.5°	1411.8	204.3	16.5	8.4	5.7	6.8	5.7	3.4	2.7	2.4	2.0
75°	819.5	85.4	11.5	5.7	4.4	8.1	7.4	3.0	2.0	1.7	1.7
77.5°	246.5	31.4	6.4	3.7	3.4	7.1	8.4	2.7	1.0	0.3	0.3
80°	44.9	13.5	4.1	2.4	2.4	4.4	6.4	1.4	0.0	0.0	0.0
82.5°	15.9	6.8	2.4	1.4	1.0	2.0	3.0	0.0	0.0	0.0	0.0
85°	9.1	4.7	1.4	0.7	0.0	0.3	0.7	0.0	0.0	0.0	0.0
87.5°	6.1	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)