

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: P323756

Luminaire Tested: **GAN-SA2B-727-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323756
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-25)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2B-727-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 2700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL
LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7937 lumens
Efficiency: N/A
Efficacy: 93.4 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): 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



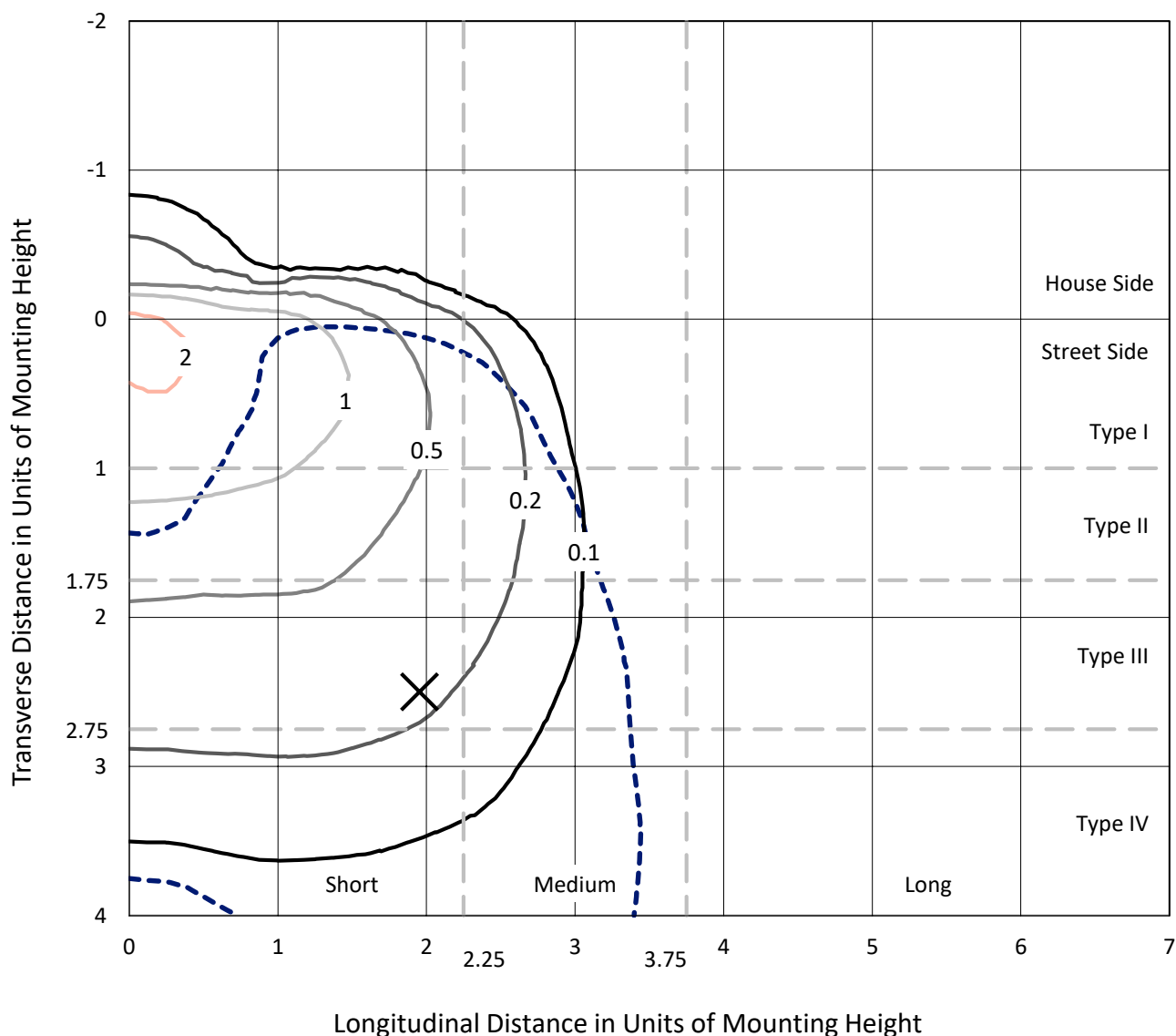
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

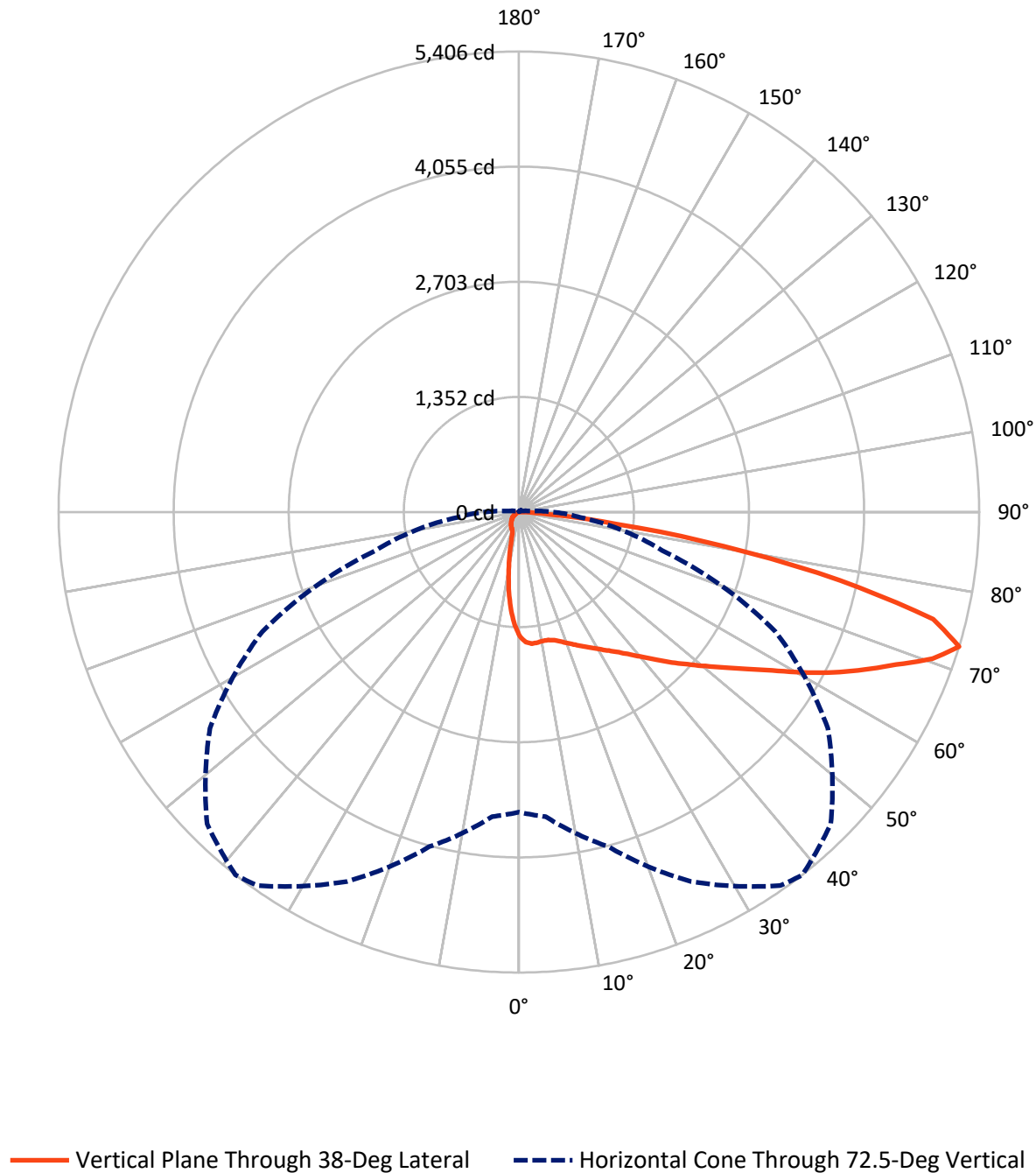
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 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	667.9	0.0	667.9
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	7269.1	0.0	7269.1
	% Fixture	91.6	0.0	91.6
Total	Lumens	7937.0	0.0	7937.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	124.4	1.6
10°-20°	304.2	3.8
20°-30°	483.7	6.1
30°-40°	727.3	9.2
40°-50°	1109.5	14.0
50°-60°	1568.1	19.8
60°-70°	1966.9	24.8
70°-80°	1470.7	18.5
80°-90°	182.4	2.3
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°	7937.0	100.0
0°-180°	7937.0	100.0

Coefficient of Utilization



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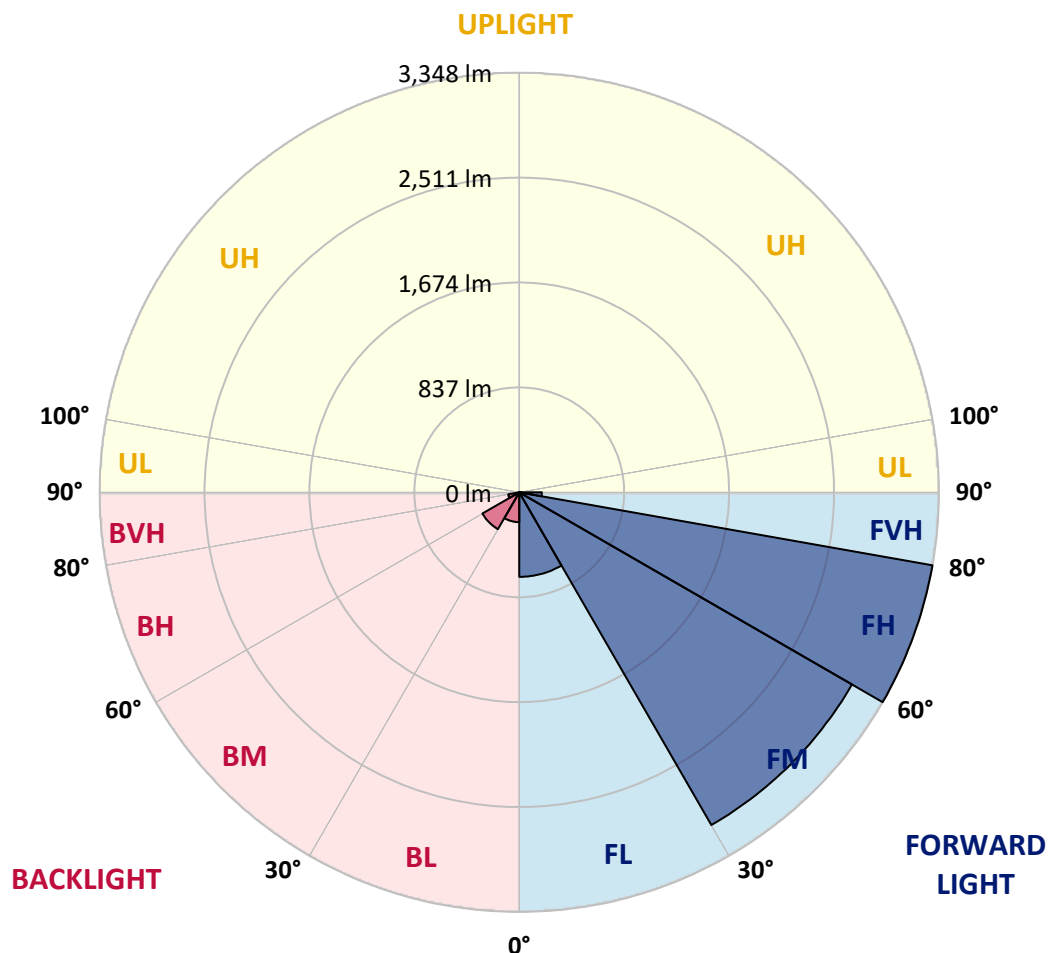
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	674.5	8.5			
FM	(30°-60°)	3065.6	38.6			
FH	(60°-80°)	3348.3	42.2			G2/5000
FVH	(80°-90°)	180.7	2.3			G2/225
BL	(0°-30°)	237.8	3.0	B1/500		
BM	(30°-60°)	339.2	4.3	B1/1000		
BH	(60°-80°)	89.2	1.1	B0/110		G0/110
BVH	(80°-90°)	1.7	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°	35°	38°	45°	55°	65°	75°	85°
0°	1459.6	1459.6	1459.6	1459.6	1459.6	1459.6	1459.6	1459.6	1459.6	1459.6	1459.6
2.5°	1549.2	1549.6	1546.0	1540.0	1532.4	1528.5	1521.9	1511.3	1500.1	1480.0	1458.3
5°	1580.9	1580.9	1576.3	1568.4	1556.2	1552.5	1540.0	1523.2	1500.1	1467.5	1430.9
7.5°	1577.6	1578.3	1572.0	1563.8	1551.6	1548.3	1533.1	1514.3	1485.6	1446.1	1399.3
10°	1560.5	1562.1	1557.2	1553.2	1542.0	1538.4	1524.2	1505.4	1476.7	1434.5	1380.8
12.5°	1543.0	1544.6	1546.3	1549.9	1543.0	1541.7	1530.5	1514.6	1487.3	1443.4	1382.8
15°	1531.8	1535.1	1546.9	1561.1	1562.8	1561.4	1554.2	1539.4	1511.7	1466.2	1397.0
17.5°	1531.8	1537.1	1561.8	1588.8	1598.4	1599.3	1593.1	1572.3	1539.4	1490.6	1410.1
20°	1544.6	1551.9	1590.5	1628.7	1644.5	1644.5	1632.3	1603.3	1564.7	1512.7	1419.0
22.5°	1577.6	1587.2	1635.6	1679.8	1696.6	1693.0	1676.5	1634.3	1591.1	1537.7	1430.3
25°	1642.5	1649.8	1700.2	1744.7	1754.9	1746.7	1725.9	1671.9	1624.7	1571.7	1450.7
27.5°	1726.3	1727.2	1779.3	1816.9	1810.6	1805.0	1779.0	1719.0	1673.2	1620.1	1486.0
30°	1818.2	1818.2	1864.0	1892.7	1873.6	1869.0	1842.9	1776.0	1735.2	1686.0	1536.1
32.5°	1907.2	1911.2	1948.4	1966.6	1945.1	1940.5	1915.1	1848.2	1817.6	1786.6	1614.2
35°	1993.3	1996.2	2031.5	2041.4	2020.9	2022.3	2004.1	1947.4	1935.9	1931.9	1731.9
37.5°	2076.6	2077.3	2113.2	2119.5	2109.3	2120.5	2122.1	2072.0	2093.5	2125.4	1897.7
40°	2152.8	2153.5	2189.1	2205.2	2222.7	2237.2	2250.0	2223.3	2294.2	2368.4	2095.1
42.5°	2213.8	2220.7	2265.9	2296.5	2342.7	2370.3	2405.3	2404.0	2533.2	2644.6	2333.8
45°	2267.5	2279.4	2342.3	2396.1	2475.2	2519.3	2574.1	2616.9	2802.2	2952.1	2575.4
47.5°	2338.4	2349.6	2421.4	2509.4	2614.9	2672.9	2763.6	2856.2	3097.8	3254.1	2811.4
50°	2438.3	2433.3	2504.2	2630.4	2765.9	2842.0	2971.3	3110.0	3391.2	3517.1	2950.2
52.5°	2544.7	2542.7	2595.2	2761.9	2943.9	3032.9	3203.6	3372.4	3671.7	3698.4	3013.8
55°	2676.6	2662.4	2706.6	2911.9	3155.2	3250.8	3451.9	3632.2	3895.2	3800.6	3045.8
57.5°	2814.7	2791.3	2833.5	3079.0	3393.5	3506.6	3726.8	3885.3	4043.9	3870.5	3045.4
60°	2957.4	2929.7	2979.8	3288.0	3689.5	3820.4	4024.7	4056.4	4182.6	3905.7	3023.0
62.5°	3076.7	3060.3	3134.8	3511.5	4020.1	4148.7	4249.9	4212.0	4299.7	3933.1	2970.6
65°	3203.0	3204.0	3324.3	3772.3	4371.5	4458.2	4466.8	4413.7	4397.6	3927.5	2793.3
67.5°	3373.7	3389.6	3590.3	4126.3	4713.3	4780.3	4779.6	4632.2	4469.1	3704.7	2400.0
70°	3554.4	3591.6	3896.8	4531.4	5086.5	5154.4	5119.4	4771.4	4208.0	2995.6	1698.6
72.5°	3524.0	3588.6	4067.3	4786.8	5354.5	5406.2	5179.1	4429.5	3325.9	1741.1	723.2
75°	2718.8	2793.6	3729.4	4533.7	5073.3	5026.8	4450.0	3446.9	1817.6	485.9	162.8
77.5°	1436.2	1476.1	2463.6	3453.8	3955.9	3858.6	3134.8	1912.2	554.1	120.3	73.2
80°	752.2	761.4	1073.6	1959.6	2441.5	2442.2	1857.8	839.9	228.4	61.6	49.1
82.5°	402.8	410.7	567.3	905.5	1279.3	1159.6	711.3	462.1	132.8	34.9	47.1
85°	96.9	98.6	321.7	413.7	503.0	359.3	211.3	388.0	35.9	20.4	38.2
87.5°	37.2	37.9	119.3	179.0	128.2	83.1	98.9	144.7	4.6	7.9	5.9
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°	1459.6	1459.6	1459.6	1459.6	1459.6	1459.6	1459.6	1459.6	1459.6	1459.6	1459.6
2.5°	1445.1	1436.5	1415.4	1388.7	1365.0	1347.8	1322.1	1305.3	1294.1	1293.8	1289.5
5°	1408.5	1391.0	1345.5	1291.5	1242.4	1198.2	1146.1	1104.9	1074.3	1069.3	1058.8
7.5°	1369.3	1340.6	1270.7	1186.3	1103.9	1020.2	923.0	862.6	810.9	786.2	783.5
10°	1345.2	1305.0	1205.8	1083.8	954.6	818.5	691.2	603.2	539.6	521.5	508.0
12.5°	1340.3	1287.2	1155.7	987.6	803.0	623.0	482.2	388.6	337.9	321.7	317.4
15°	1345.2	1279.0	1113.5	892.3	649.4	442.0	323.7	269.3	250.2	245.6	245.2
17.5°	1348.2	1269.1	1065.7	786.5	500.4	315.8	247.9	232.1	229.1	228.8	229.4
20°	1347.8	1253.9	1008.7	668.5	372.1	248.2	224.1	220.9	220.2	220.5	220.2
22.5°	1345.5	1236.1	946.0	546.9	281.2	221.8	213.9	212.0	211.6	211.6	211.6
25°	1349.8	1221.9	877.1	430.5	231.7	209.6	204.7	203.1	202.7	202.7	202.1
27.5°	1365.3	1214.0	801.7	331.3	209.3	198.8	194.8	194.5	193.5	193.2	193.8
30°	1390.4	1214.0	718.9	257.8	195.8	187.6	184.6	183.9	183.6	183.3	183.6
32.5°	1434.5	1223.2	628.6	214.3	182.9	175.0	173.1	174.0	173.1	173.1	173.1
35°	1514.3	1250.9	534.0	186.9	169.4	162.8	160.9	162.2	161.5	161.5	161.2
37.5°	1630.7	1302.4	438.7	170.4	157.6	150.6	148.0	150.0	149.3	149.3	149.0
40°	1772.4	1377.2	348.1	157.9	146.0	138.8	136.5	137.5	135.8	135.8	136.5
42.5°	1947.4	1472.1	269.0	145.7	134.5	127.6	126.2	125.3	122.3	120.6	121.0
45°	2141.9	1571.0	209.6	133.8	123.6	118.0	116.0	113.4	108.4	105.2	105.5
47.5°	2315.6	1647.1	170.4	122.3	113.7	109.4	106.5	101.5	94.3	90.3	90.6
50°	2406.9	1658.7	145.0	110.8	104.5	100.2	95.9	88.3	79.8	75.5	75.2
52.5°	2430.3	1604.6	126.2	100.2	95.3	90.3	84.7	74.5	64.9	60.3	59.7
55°	2438.9	1522.2	109.4	90.3	85.4	79.8	72.5	61.0	52.1	47.5	47.1
57.5°	2410.6	1399.3	96.3	81.4	75.5	68.6	59.7	48.8	40.2	36.6	36.6
60°	2347.6	1232.8	86.0	71.9	65.3	57.4	48.1	37.9	30.0	27.0	27.0
62.5°	2222.0	1017.2	76.5	62.0	55.7	47.5	38.9	28.7	21.1	19.4	19.8
65°	1985.0	771.7	66.9	53.1	47.5	39.2	30.3	20.4	14.2	14.2	14.8
67.5°	1618.8	536.0	57.0	45.2	40.9	32.0	23.1	14.2	9.9	11.2	12.5
70°	1071.6	300.6	48.8	37.2	34.9	25.4	17.1	9.6	7.9	10.5	12.9
72.5°	404.5	117.0	40.9	30.0	30.3	19.4	12.2	7.3	7.3	11.5	15.2
75°	112.7	57.4	29.3	22.1	23.7	14.2	8.9	6.3	6.9	13.2	17.8
77.5°	66.3	42.2	19.1	12.9	16.2	9.9	5.9	4.9	5.9	11.2	17.1
80°	53.4	22.4	11.2	6.6	8.9	5.6	4.0	3.0	1.6	4.3	8.9
82.5°	53.4	13.5	5.3	4.6	4.6	3.0	2.0	1.3	0.3	0.0	2.3
85°	35.9	5.6	3.3	3.0	2.3	1.0	0.7	0.3	0.0	0.0	0.0
87.5°	5.9	2.3	1.3	0.7	0.3	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)