

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: P323996

Luminaire Tested: **GAN-SA2B-830-U-SL4-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P323996
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-830-U-SL4-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 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: 7540 lumens
Efficiency: N/A
Efficacy: 88.7 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

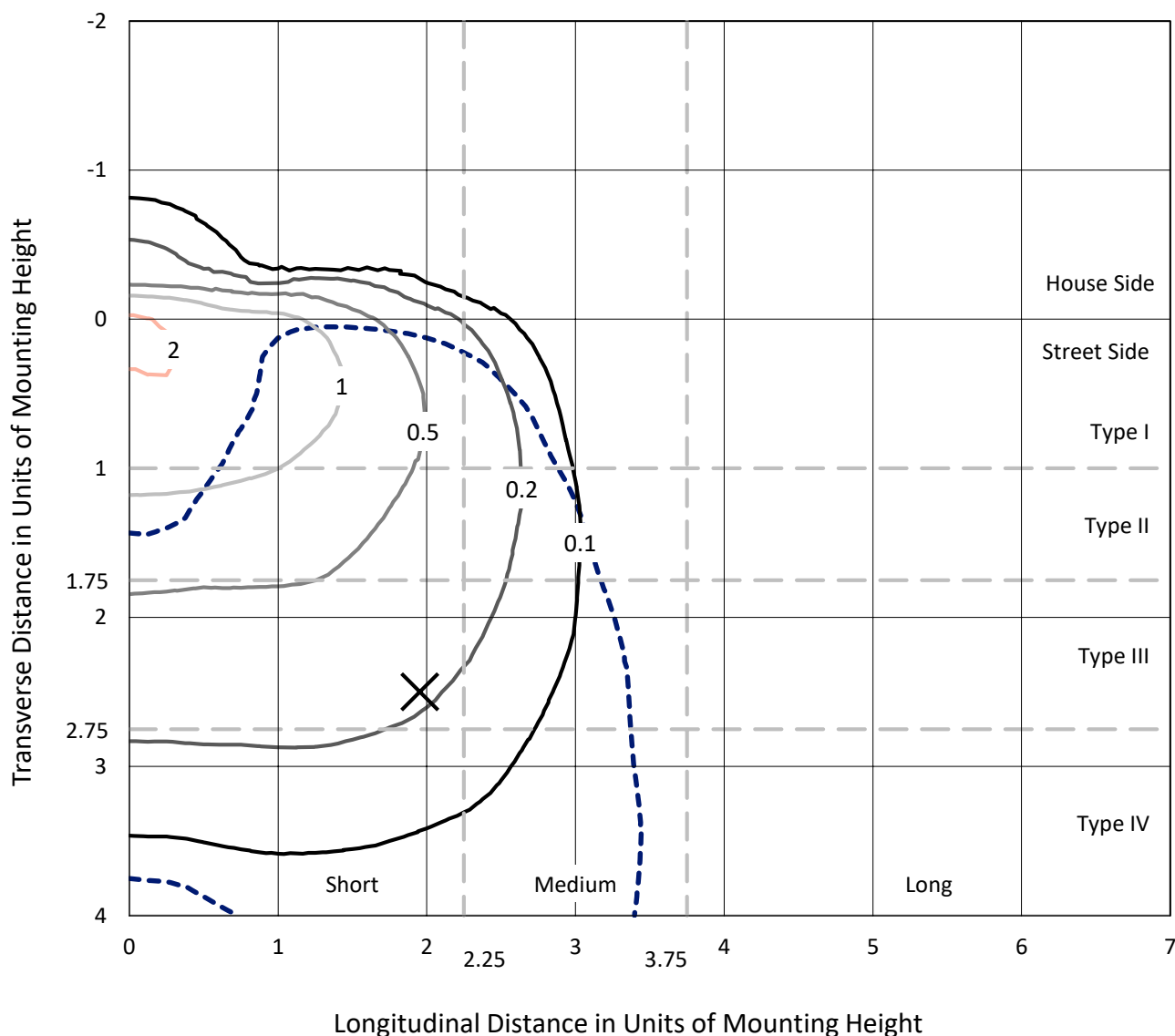


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

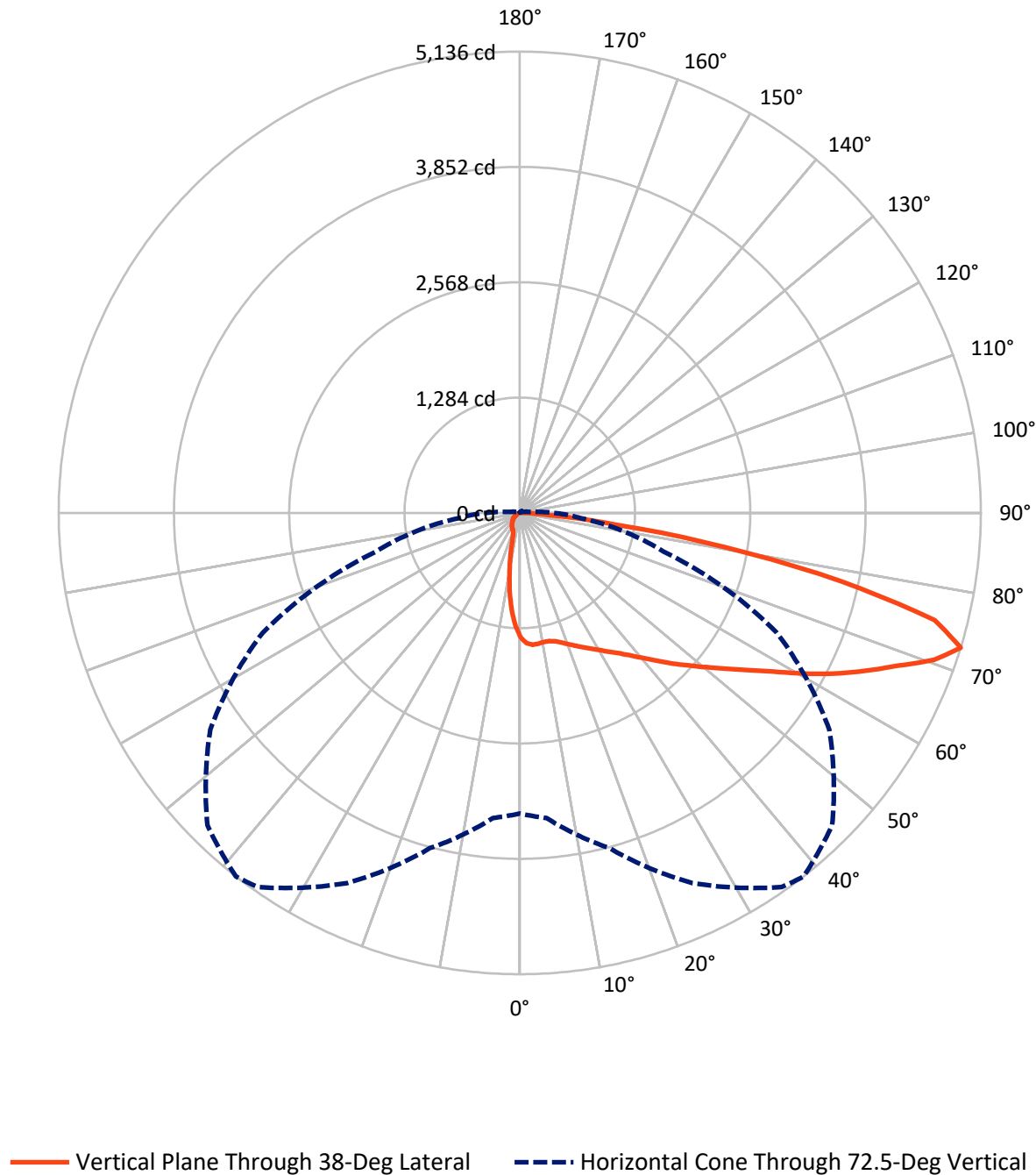
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 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	634.5	0.0	634.5
	% Fixture	8.4	0.0	8.4
Street Side	Lumens	6905.5	0.0	6905.5
	% Fixture	91.6	0.0	91.6
Total	Lumens	7540.0	0.0	7540.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.2	1.6
10°-20°	288.9	3.8
20°-30°	459.5	6.1
30°-40°	690.9	9.2
40°-50°	1054.0	14.0
50°-60°	1489.6	19.8
60°-70°	1868.5	24.8
70°-80°	1397.1	18.5
80°-90°	173.2	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°	7540.0	100.0
0°-180°	7540.0	100.0

Coefficient of Utilization



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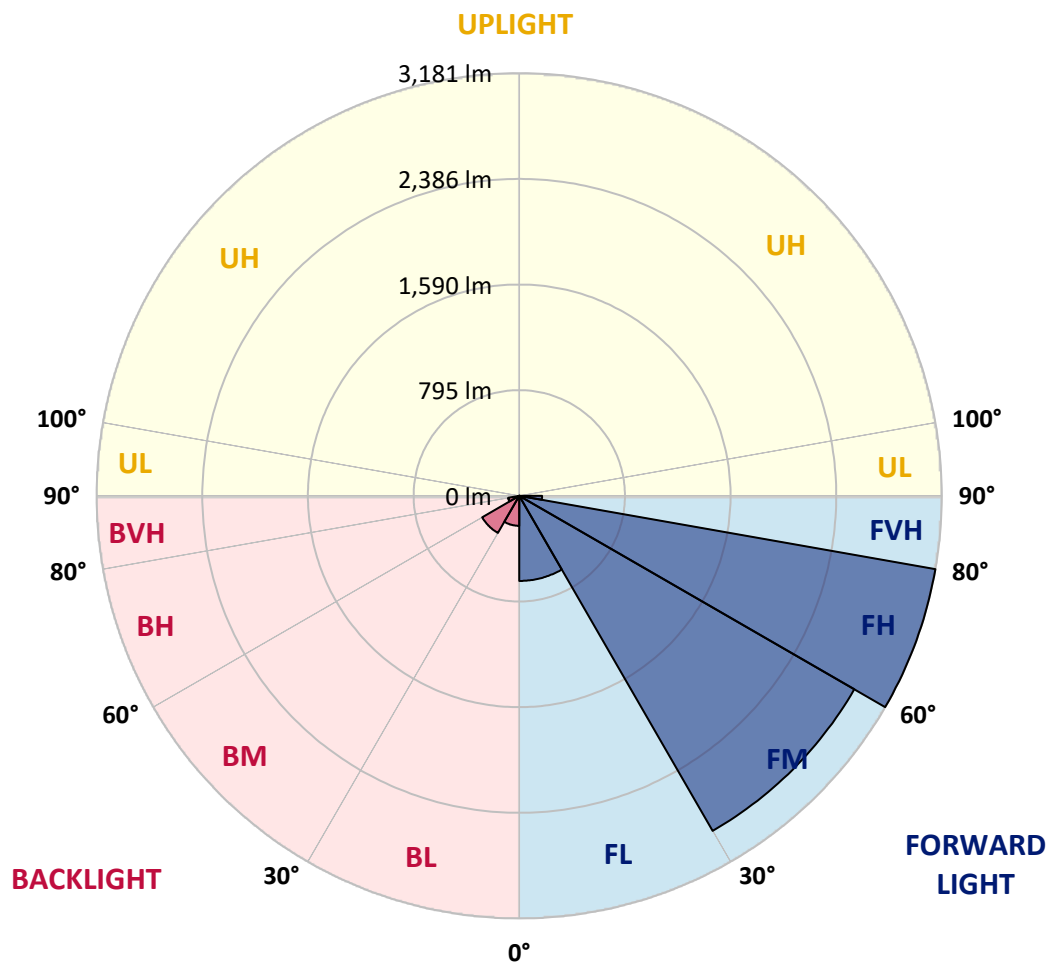
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	640.7	8.5			
FM	(30°-60°)	2912.3	38.6			
FH	(60°-80°)	3180.9	42.2			G2/5000
FVH	(80°-90°)	171.6	2.3			G2/225
BL	(0°-30°)	225.9	3.0	B1/500		
BM	(30°-60°)	322.2	4.3	B1/1000		
BH	(60°-80°)	84.8	1.1	B0/110		G0/110
BVH	(80°-90°)	1.6	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°	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6
2.5°	1471.8	1472.1	1468.6	1463.0	1455.8	1452.0	1445.8	1435.7	1425.1	1406.0	1385.3
5°	1501.8	1501.8	1497.4	1489.9	1478.3	1474.9	1463.0	1447.0	1425.1	1394.1	1359.3
7.5°	1498.7	1499.3	1493.4	1485.5	1473.9	1470.8	1456.4	1438.6	1411.3	1373.7	1329.3
10°	1482.4	1484.0	1479.3	1475.5	1464.9	1461.4	1448.0	1430.1	1402.9	1362.8	1311.7
12.5°	1465.8	1467.4	1468.9	1472.4	1465.8	1464.6	1453.9	1438.9	1412.9	1371.2	1313.6
15°	1455.2	1458.3	1469.6	1483.0	1484.6	1483.3	1476.5	1462.4	1436.1	1392.8	1327.1
17.5°	1455.2	1460.2	1483.7	1509.3	1518.4	1519.4	1513.4	1493.7	1462.4	1416.0	1339.6
20°	1467.4	1474.3	1510.9	1547.2	1562.3	1562.3	1550.7	1523.1	1486.5	1437.0	1348.1
22.5°	1498.7	1507.8	1553.8	1595.8	1611.7	1608.3	1592.6	1552.5	1511.5	1460.8	1358.7
25°	1560.4	1567.3	1615.2	1657.4	1667.2	1659.3	1639.6	1588.2	1543.5	1493.0	1378.1
27.5°	1639.9	1640.9	1690.3	1726.0	1720.1	1714.8	1690.0	1633.0	1589.5	1539.1	1411.6
30°	1727.3	1727.3	1770.8	1798.0	1779.9	1775.5	1750.8	1687.2	1648.4	1601.7	1459.2
32.5°	1811.8	1815.6	1851.0	1868.2	1847.8	1843.5	1819.3	1755.8	1726.7	1697.2	1533.4
35°	1893.6	1896.4	1929.9	1939.3	1919.9	1921.1	1903.9	1850.0	1839.1	1835.3	1645.2
37.5°	1972.8	1973.4	2007.5	2013.5	2003.8	2014.4	2016.0	1968.4	1988.7	2019.1	1802.7
40°	2045.1	2045.7	2079.6	2094.9	2111.5	2125.3	2137.5	2112.1	2179.5	2249.9	1990.3
42.5°	2103.0	2109.6	2152.5	2181.6	2225.5	2251.8	2285.0	2283.7	2406.5	2512.3	2217.0
45°	2154.1	2165.4	2225.2	2276.2	2351.4	2393.3	2445.3	2486.0	2662.0	2804.5	2446.6
47.5°	2221.4	2232.1	2300.3	2383.9	2484.1	2539.2	2625.4	2713.4	2942.9	3091.3	2670.8
50°	2316.3	2311.6	2378.9	2498.9	2627.6	2699.9	2822.6	2954.5	3221.6	3341.2	2802.6
52.5°	2417.4	2415.6	2465.3	2623.8	2796.6	2881.2	3043.4	3203.7	3488.1	3513.4	2863.0
55°	2542.7	2529.2	2571.2	2766.3	2997.4	3088.2	3279.2	3450.5	3700.4	3610.5	2893.4
57.5°	2673.9	2651.7	2691.7	2925.0	3223.8	3331.2	3540.4	3691.0	3841.6	3676.9	2893.1
60°	2809.5	2783.2	2830.8	3123.6	3505.0	3629.3	3823.4	3853.5	3973.4	3710.4	2871.8
62.5°	2922.8	2907.2	2978.0	3335.9	3819.0	3941.2	4037.3	4001.3	4084.6	3736.4	2822.0
65°	3042.8	3043.7	3158.0	3583.6	4152.9	4235.2	4243.4	4192.9	4177.6	3731.1	2653.5
67.5°	3205.0	3220.0	3410.7	3919.9	4477.6	4541.1	4540.5	4400.5	4245.5	3519.4	2280.0
70°	3376.6	3412.0	3701.9	4304.7	4832.1	4896.6	4863.4	4532.7	3997.5	2845.8	1613.6
72.5°	3347.8	3409.1	3863.8	4547.4	5086.6	5135.8	4920.0	4208.0	3159.6	1654.0	687.0
75°	2582.8	2653.9	3542.9	4306.9	4819.5	4775.4	4227.4	3274.5	1726.7	461.6	154.7
77.5°	1364.3	1402.2	2340.4	3281.1	3758.0	3665.6	2978.0	1816.5	526.4	114.3	69.5
80°	714.6	723.4	1019.9	1861.6	2319.4	2320.0	1764.9	797.9	217.0	58.6	46.7
82.5°	382.7	390.2	538.9	860.2	1215.3	1101.6	675.8	439.0	126.2	33.2	44.8
85°	92.1	93.6	305.6	393.0	477.9	341.3	200.7	368.6	34.1	19.4	36.3
87.5°	35.4	36.0	113.4	170.0	121.8	78.9	93.9	137.5	4.4	7.5	5.6
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°	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6	1386.6
2.5°	1372.8	1364.7	1344.6	1319.3	1296.7	1280.4	1256.0	1240.0	1229.4	1229.1	1225.0
5°	1338.0	1321.4	1278.2	1226.9	1180.2	1138.3	1088.8	1049.6	1020.5	1015.8	1005.8
7.5°	1300.8	1273.5	1207.2	1127.0	1048.7	969.2	876.8	819.5	770.3	746.8	744.3
10°	1277.9	1239.7	1145.5	1029.6	906.9	777.5	656.7	573.0	512.6	495.4	482.5
12.5°	1273.2	1222.8	1097.9	938.2	762.8	591.8	458.1	369.2	321.0	305.6	301.6
15°	1277.9	1215.0	1057.8	847.7	616.9	419.9	307.5	255.8	237.7	233.3	233.0
17.5°	1280.7	1205.6	1012.4	747.2	475.3	300.0	235.5	220.5	217.6	217.3	217.9
20°	1280.4	1191.2	958.2	635.0	353.5	235.8	212.9	209.8	209.2	209.5	209.2
22.5°	1278.2	1174.3	898.7	519.5	267.1	210.7	203.2	201.3	201.0	201.0	201.0
25°	1282.3	1160.8	833.3	409.0	220.1	199.2	194.5	192.9	192.6	192.6	192.0
27.5°	1297.0	1153.3	761.6	314.7	198.8	188.8	185.1	184.8	183.8	183.5	184.1
30°	1320.8	1153.3	683.0	244.9	186.0	178.2	175.4	174.7	174.4	174.1	174.4
32.5°	1362.8	1162.1	597.2	203.5	173.8	166.3	164.4	165.3	164.4	164.4	164.4
35°	1438.6	1188.4	507.3	177.6	161.0	154.7	152.8	154.1	153.4	153.4	153.1
37.5°	1549.1	1237.2	416.8	161.9	149.7	143.1	140.6	142.5	141.9	141.9	141.5
40°	1683.8	1308.3	330.7	150.0	138.7	131.8	129.6	130.6	129.0	129.0	129.6
42.5°	1850.0	1398.5	255.5	138.4	127.8	121.2	119.9	119.0	116.2	114.6	114.9
45°	2034.8	1492.4	199.2	127.1	117.4	112.1	110.2	107.7	103.0	99.9	100.2
47.5°	2199.8	1564.8	161.9	116.2	108.0	104.0	101.1	96.4	89.6	85.8	86.1
50°	2286.5	1575.7	137.8	105.2	99.3	95.2	91.1	83.9	75.8	71.7	71.4
52.5°	2308.8	1524.4	119.9	95.2	90.5	85.8	80.5	70.8	61.7	57.3	56.7
55°	2316.9	1446.1	104.0	85.8	81.1	75.8	68.9	57.9	49.5	45.1	44.8
57.5°	2290.0	1329.3	91.4	77.3	71.7	65.1	56.7	46.3	38.2	34.8	34.8
60°	2230.2	1171.1	81.7	68.3	62.0	54.5	45.7	36.0	28.5	25.7	25.7
62.5°	2110.9	966.3	72.6	58.9	52.9	45.1	37.0	27.2	20.0	18.5	18.8
65°	1885.7	733.1	63.6	50.4	45.1	37.3	28.8	19.4	13.5	13.5	14.1
67.5°	1537.8	509.2	54.2	42.9	38.8	30.4	21.9	13.5	9.4	10.6	11.9
70°	1018.0	285.6	46.3	35.4	33.2	24.1	16.3	9.1	7.5	10.0	12.2
72.5°	384.2	111.2	38.8	28.5	28.8	18.5	11.6	6.9	6.9	11.0	14.4
75°	107.1	54.5	27.9	21.0	22.5	13.5	8.5	5.9	6.6	12.5	16.9
77.5°	62.9	40.1	18.2	12.2	15.3	9.4	5.6	4.7	5.6	10.6	16.3
80°	50.7	21.3	10.6	6.3	8.5	5.3	3.8	2.8	1.6	4.1	8.5
82.5°	50.7	12.8	5.0	4.4	4.4	2.8	1.9	1.3	0.3	0.0	2.2
85°	34.1	5.3	3.1	2.8	2.2	0.9	0.6	0.3	0.0	0.0	0.0
87.5°	5.6	2.2	1.3	0.6	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)