

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: P321556

Luminaire Tested: **GAN-SA2B-730-U-T3R-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P321556
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-730-U-T3R-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 3000K, 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: 8189 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

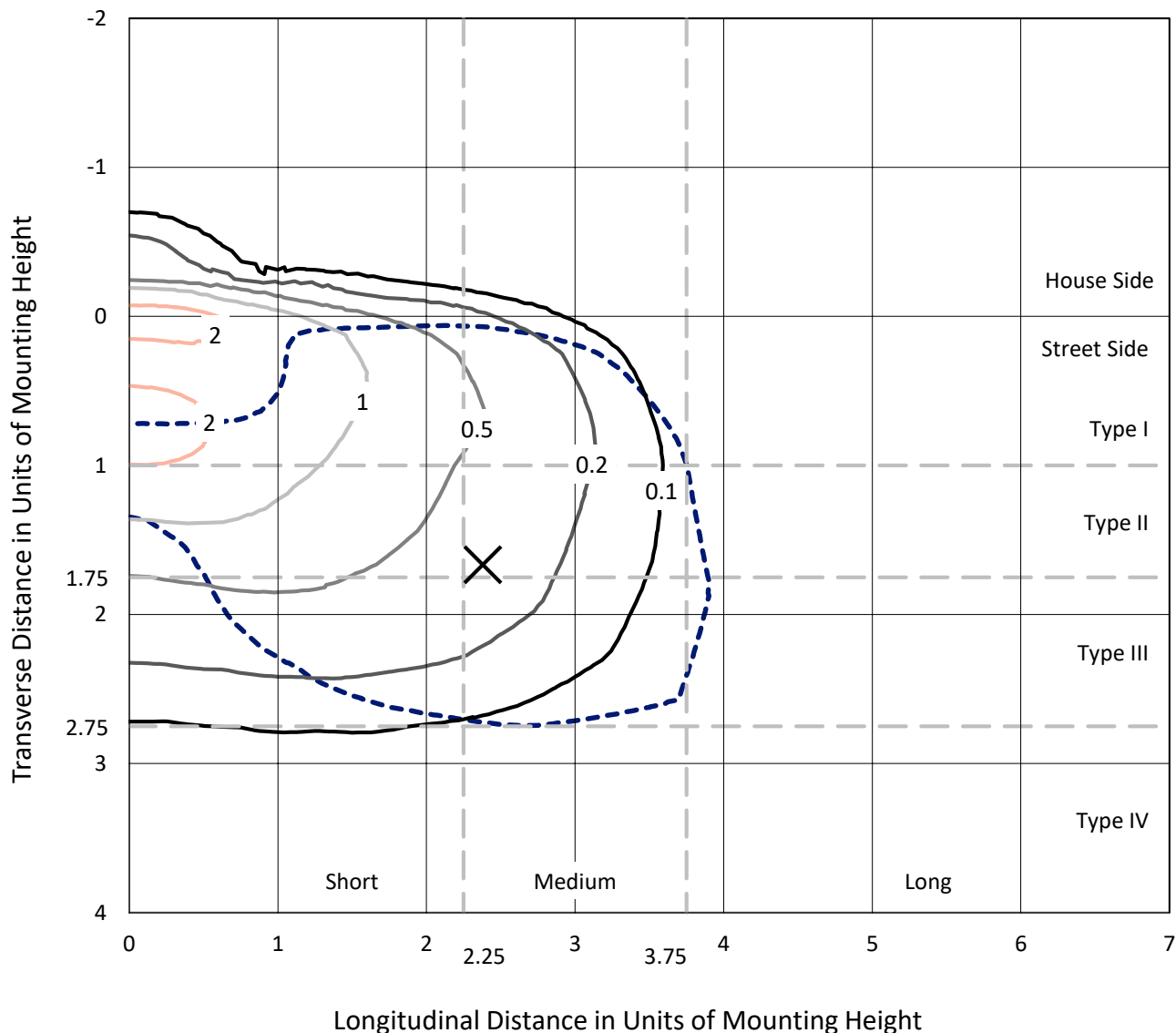
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

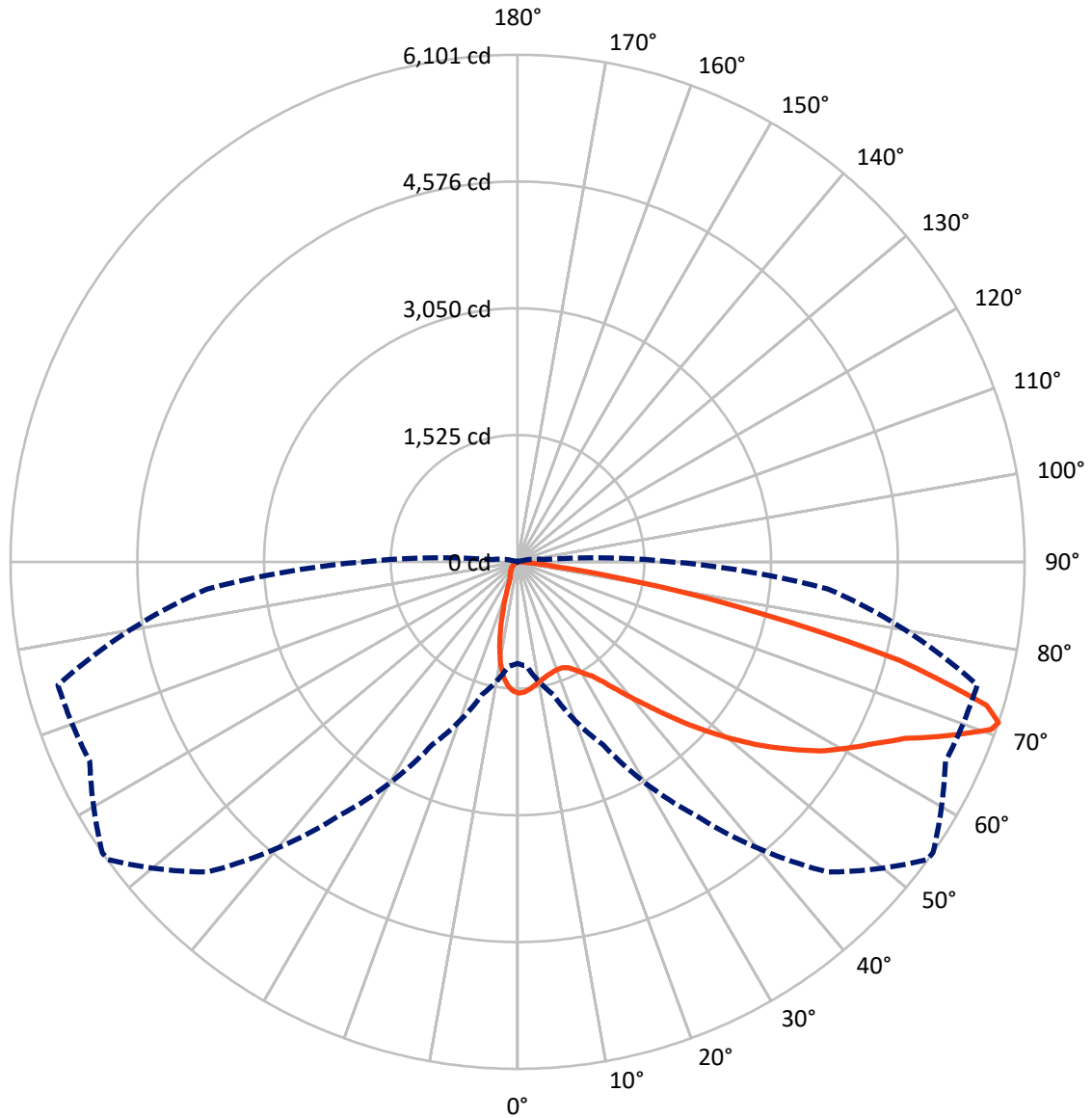
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	648.4	0.0	648.4
	% Fixture	7.9	0.0	7.9
Street Side	Lumens	7540.7	0.0	7540.7
	% Fixture	92.1	0.0	92.1
Total	Lumens	8189.0	0.0	8189.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.7	1.6
10°-20°	304.0	3.7
20°-30°	488.5	6.0
30°-40°	830.0	10.1
40°-50°	1288.3	15.7
50°-60°	1732.1	21.2
60°-70°	2118.9	25.9
70°-80°	1238.9	15.1
80°-90°	53.6	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°	8189.0	100.0
0°-180°	8189.0	100.0

Coefficient of Utilization

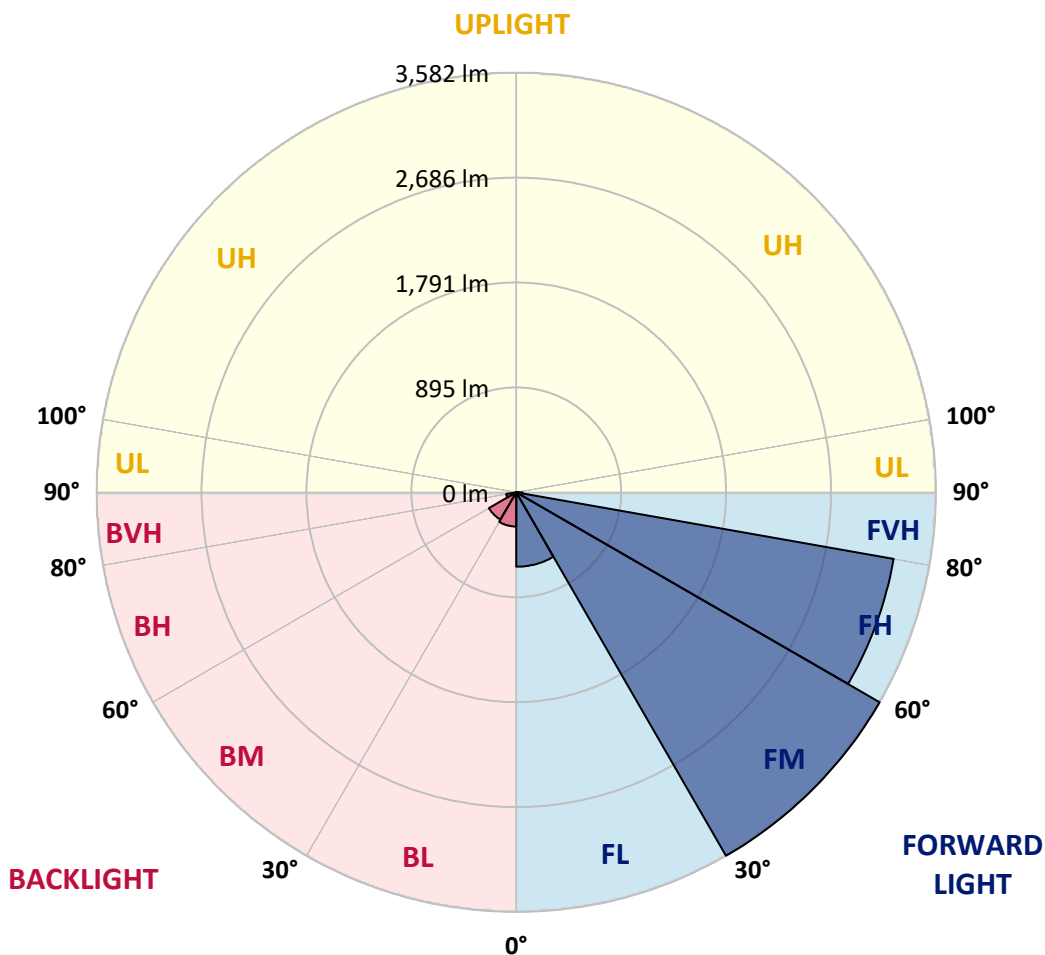


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	635.4	7.8			
FM (30°-60°)	3581.6	43.7			
FH (60°-80°)	3271.0	39.9			G2/5000
FVH (80°-90°)	52.7	0.6			G1/100
BL (0°-30°)	291.8	3.6	B1/500		
BM (30°-60°)	268.8	3.3	B1/1000		
BH (60°-80°)	86.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	1579.3	1579.3	1579.3	1579.3	1579.3	1579.3	1579.3	1579.3	1579.3	1579.3	1579.3
2.5°	1532.9	1534.8	1541.4	1544.3	1551.3	1563.1	1569.0	1569.4	1578.9	1582.6	1585.5
5°	1424.5	1435.5	1446.5	1458.3	1479.6	1507.9	1535.9	1538.5	1569.4	1592.1	1604.3
7.5°	1331.1	1341.0	1354.2	1373.0	1403.1	1447.6	1494.3	1499.9	1558.3	1610.2	1637.4
10°	1235.1	1243.2	1262.3	1289.9	1331.4	1391.0	1453.9	1463.1	1548.4	1634.4	1682.2
12.5°	1132.5	1137.3	1160.5	1200.2	1261.2	1337.0	1419.7	1431.8	1542.1	1662.4	1735.2
15°	1054.6	1056.8	1078.8	1120.0	1189.9	1288.4	1393.2	1407.9	1543.6	1695.8	1792.9
17.5°	1034.7	1035.8	1047.6	1075.9	1137.7	1245.0	1372.3	1390.3	1548.0	1728.6	1851.0
20°	1115.2	1107.5	1095.4	1091.0	1117.4	1218.9	1359.8	1380.0	1553.9	1757.6	1903.2
22.5°	1336.2	1313.4	1263.1	1195.8	1155.0	1220.8	1363.1	1383.3	1572.7	1793.3	1963.5
25°	1664.2	1632.6	1546.9	1414.5	1287.3	1273.7	1390.6	1411.2	1609.1	1835.9	2021.3
27.5°	2037.4	2006.2	1901.4	1712.4	1495.4	1378.5	1453.9	1473.0	1663.1	1873.8	2065.4
30°	2394.8	2386.0	2262.5	2047.7	1757.2	1548.4	1535.5	1551.7	1703.2	1896.6	2100.3
32.5°	2697.8	2683.9	2584.6	2375.7	2056.9	1752.5	1631.5	1636.3	1733.3	1926.0	2145.9
35°	2978.8	2961.5	2874.3	2676.9	2364.3	2001.8	1779.3	1772.3	1799.2	1985.2	2212.1
37.5°	3224.0	3239.8	3143.1	2955.2	2640.1	2261.0	1978.6	1957.6	1902.1	2081.6	2308.1
40°	3429.2	3429.2	3378.8	3222.2	2937.9	2529.1	2204.0	2176.4	2056.9	2230.1	2429.8
42.5°	3503.1	3518.9	3537.7	3449.0	3204.5	2807.8	2455.1	2426.5	2275.0	2440.8	2583.5
45°	3507.5	3532.5	3628.5	3628.1	3445.4	3084.6	2738.3	2724.7	2554.4	2711.4	2773.9
47.5°	3445.4	3476.6	3634.7	3724.4	3636.2	3342.4	3047.9	3031.0	2882.8	3043.1	2973.2
50°	3349.4	3384.0	3567.8	3762.3	3766.0	3566.7	3374.0	3348.7	3244.2	3422.2	3179.1
52.5°	3177.7	3244.6	3507.9	3771.1	3851.3	3760.5	3684.4	3673.3	3648.7	3787.3	3343.1
55°	2810.3	2884.6	3357.5	3774.1	3930.4	3932.2	3975.2	3978.2	4027.8	4128.6	3465.2
57.5°	2636.8	2678.7	3094.9	3788.1	4047.7	4127.1	4271.6	4294.4	4371.2	4452.5	3604.6
60°	2527.6	2577.2	2965.5	3768.9	4231.9	4382.6	4546.3	4554.0	4636.3	4786.7	3793.2
62.5°	2440.4	2489.3	2883.9	3695.4	4438.9	4690.0	4814.7	4815.4	4877.2	5185.0	4007.6
65°	2225.3	2266.5	2718.8	3612.7	4575.7	4994.1	5126.5	5121.7	5172.1	5604.9	4256.5
67.5°	1914.3	1945.9	2381.6	3299.0	4524.2	5270.6	5597.2	5581.3	5520.3	5967.8	4354.3
70°	1480.0	1491.4	1877.1	2749.3	4041.8	5376.9	6052.0	6043.9	5733.9	5902.7	3995.8
71°	1223.3	1260.8	1654.3	2426.5	3718.6	5278.7	6096.1	6100.9	5680.3	5725.5	3749.1
72.5°	710.4	742.4	1199.1	1863.5	3157.1	4869.1	5867.4	5902.0	5429.5	5207.8	3202.3
75°	152.2	162.9	444.6	902.0	1736.7	3412.6	4631.2	4754.4	4425.3	3542.8	1930.1
77.5°	105.9	114.4	190.5	409.3	574.0	1686.3	2876.9	3015.9	2643.8	1331.4	617.7
80°	83.8	93.4	148.6	202.2	155.2	543.8	1347.6	1432.6	881.7	297.1	104.1
82.5°	46.7	55.5	115.8	109.2	59.6	103.3	377.3	426.5	176.5	59.9	24.6
85°	13.6	16.5	74.6	79.4	25.4	19.9	64.3	79.8	33.5	15.8	11.0
87.5°	0.0	0.0	36.0	30.5	7.4	2.9	5.9	6.6	6.6	6.6	7.4
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°	1579.3	1579.3	1579.3	1579.3	1579.3	1579.3	1579.3	1579.3	1579.3	1579.3	1579.3
2.5°	1585.5	1588.1	1578.9	1566.8	1553.9	1538.1	1521.5	1508.7	1508.3	1502.1	1495.8
5°	1605.0	1603.5	1578.2	1539.6	1494.0	1446.5	1401.3	1350.2	1333.3	1312.3	1305.3
7.5°	1641.1	1630.8	1577.1	1492.5	1392.5	1293.2	1190.6	1087.3	1043.2	1003.5	996.5
10°	1686.3	1666.8	1570.1	1421.9	1238.4	1055.3	900.5	760.0	698.3	650.8	648.6
12.5°	1733.3	1703.6	1550.6	1315.3	1036.6	779.2	600.8	462.6	411.1	378.0	380.9
15°	1782.6	1738.1	1508.7	1171.5	806.7	528.8	369.2	287.9	267.3	258.9	261.1
17.5°	1833.0	1762.0	1450.2	998.3	579.9	341.2	255.6	232.8	232.8	234.6	235.3
20°	1876.7	1774.9	1364.2	804.2	393.1	248.6	223.6	220.3	222.1	225.0	225.4
22.5°	1920.1	1775.6	1252.0	607.4	275.0	217.7	212.9	211.4	212.5	215.8	216.2
25°	1955.4	1766.8	1111.6	432.0	219.5	205.2	203.0	202.2	203.0	207.0	207.0
27.5°	1969.8	1734.8	940.2	303.7	196.7	191.2	190.5	191.2	192.3	195.2	195.6
30°	1971.2	1678.9	753.4	219.9	178.3	172.5	173.9	176.5	175.4	174.7	175.4
32.5°	1974.9	1614.2	571.4	180.9	162.9	153.7	151.9	151.9	147.4	144.9	143.4
35°	1987.1	1538.1	414.4	162.5	147.1	136.4	129.4	121.3	112.9	108.5	107.4
37.5°	2006.2	1458.3	296.7	150.4	133.1	121.0	107.7	93.4	81.3	78.0	78.0
40°	2041.1	1375.9	219.5	140.8	122.1	107.0	87.1	68.4	57.4	55.5	55.5
42.5°	2096.3	1289.2	175.0	132.4	112.5	92.7	66.6	49.6	41.6	40.4	40.1
45°	2153.6	1193.6	153.0	124.3	102.2	76.1	49.3	36.8	32.0	30.9	30.9
47.5°	2211.0	1091.7	142.3	116.6	92.3	59.2	36.8	29.0	26.8	26.8	27.2
50°	2259.5	985.4	134.6	108.1	79.4	44.9	29.0	24.6	23.9	25.4	25.7
52.5°	2271.7	881.0	125.0	97.4	63.6	34.2	23.9	21.7	21.7	21.7	21.7
55°	2264.3	800.1	112.5	84.2	47.1	27.2	20.6	19.1	18.8	18.8	18.8
57.5°	2289.3	752.3	90.1	65.5	33.8	22.1	18.0	16.9	16.2	15.8	15.8
60°	2339.7	721.1	64.3	47.1	25.4	18.4	15.4	14.3	13.2	12.5	12.5
62.5°	2406.6	693.9	47.8	34.9	19.5	14.7	12.9	11.8	10.3	9.6	9.6
65°	2458.1	645.3	36.4	26.1	14.7	11.8	9.9	9.6	7.4	6.6	6.3
67.5°	2379.4	538.7	29.4	19.1	11.0	9.2	7.7	7.4	4.4	3.7	3.7
70°	2040.7	375.1	23.5	14.0	8.1	7.4	6.3	4.8	3.3	2.9	2.9
71°	1850.6	313.3	21.3	11.8	7.0	7.0	5.9	4.0	2.9	2.6	2.6
72.5°	1537.4	222.5	18.0	9.2	6.3	7.4	6.3	3.7	2.9	2.6	2.2
75°	892.4	93.0	12.5	6.3	4.8	8.8	8.1	3.3	2.2	1.8	1.8
77.5°	268.4	34.2	7.0	4.0	3.7	7.7	9.2	2.9	1.1	0.4	0.4
80°	48.9	14.7	4.4	2.6	2.6	4.8	7.0	1.5	0.0	0.0	0.0
82.5°	17.3	7.4	2.6	1.5	1.1	2.2	3.3	0.0	0.0	0.0	0.0
85°	9.9	5.1	1.5	0.7	0.0	0.4	0.7	0.0	0.0	0.0	0.0
87.5°	6.6	1.5	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)