

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: P192631

Luminaire Tested: **GAN-AF-03-LED-U-5WQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P192631
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24143)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-03-LED-U-5WQ-7030
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18512.9 lumens
Efficiency: N/A
Efficacy: 111.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Semi-Cutoff
BUG Rating: B5 - U0 - G3

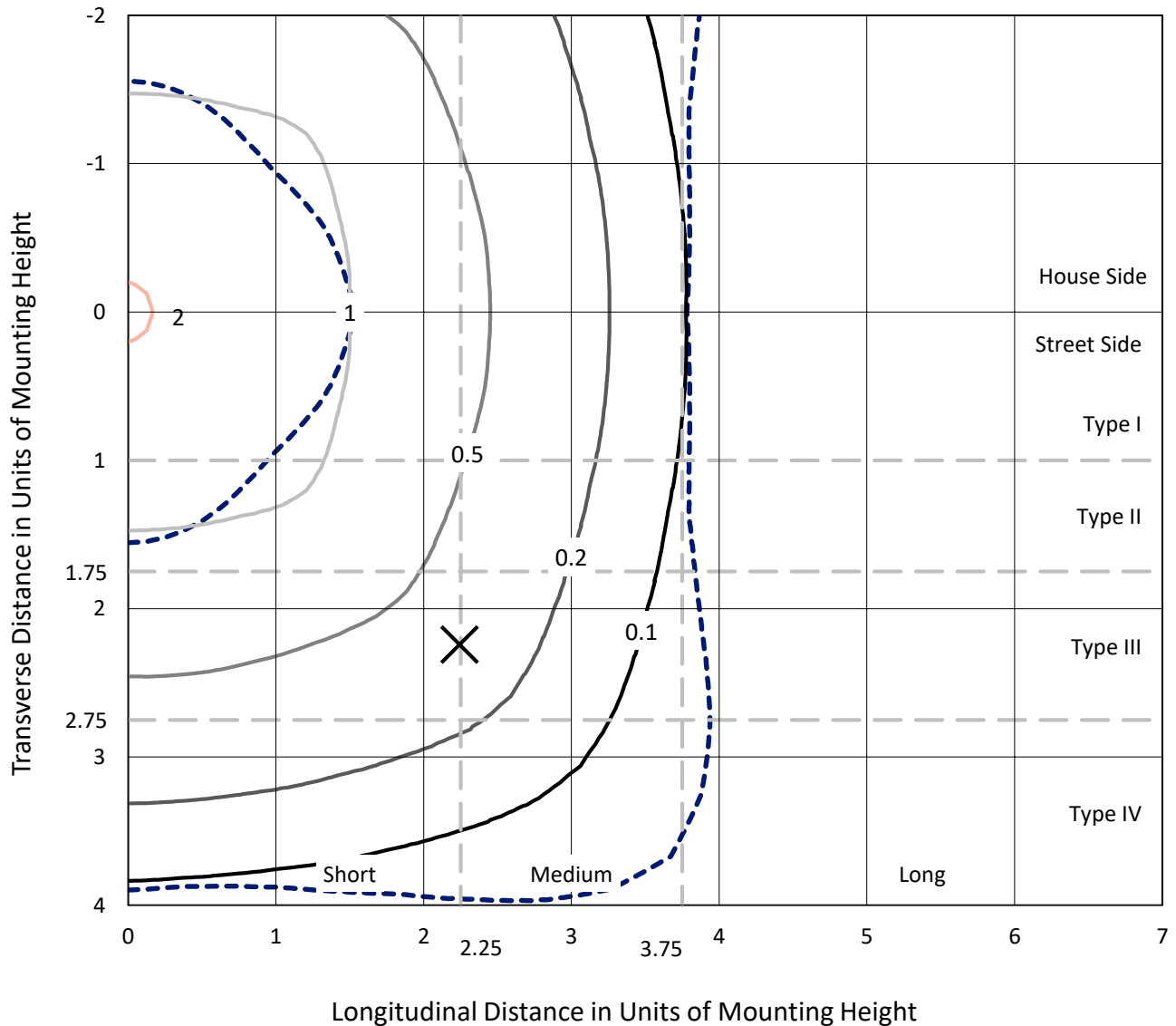
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

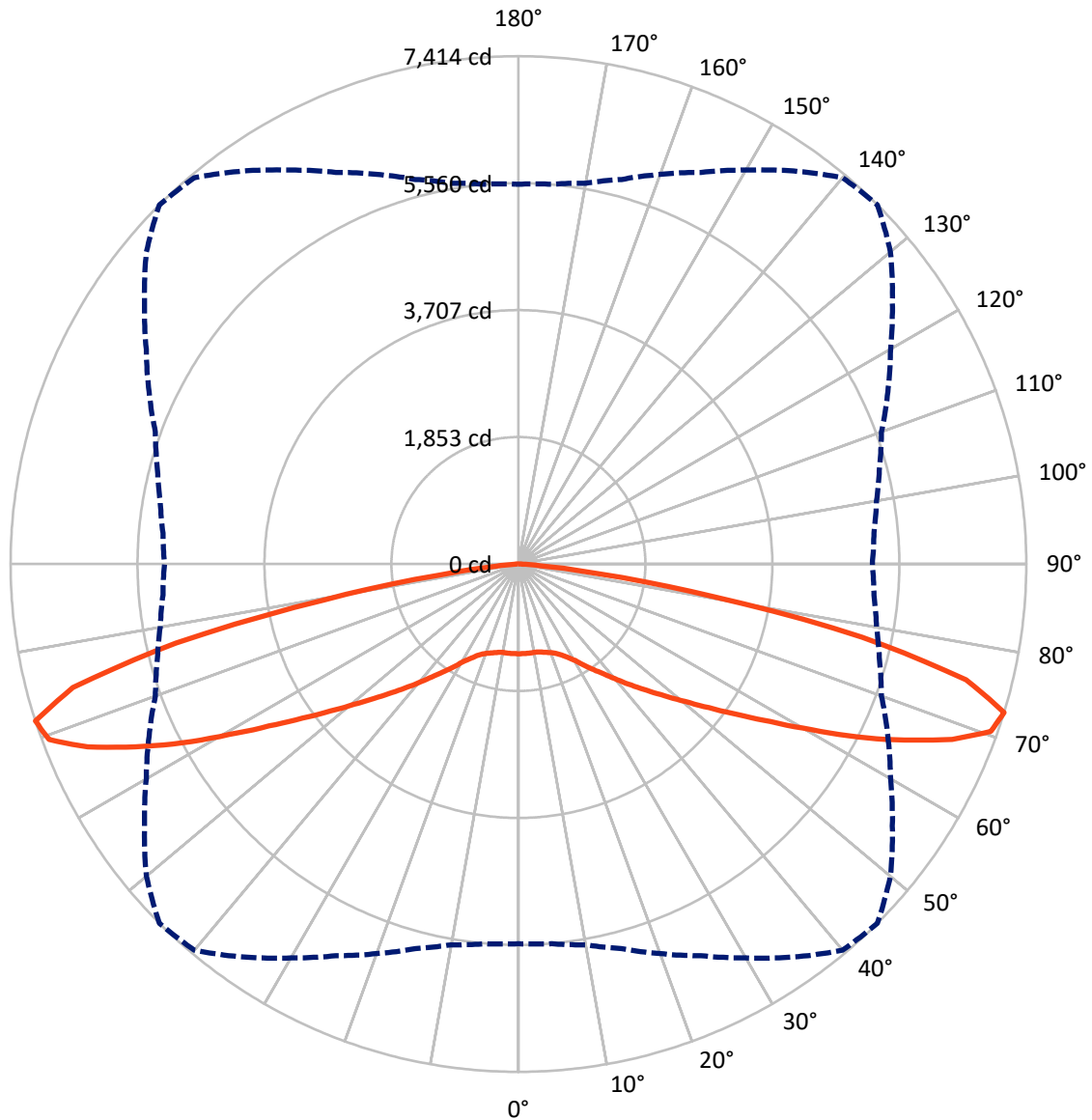


Based on 25 foot mounting height. Maximum calculated value = 2.1 fc
 Type V - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9256.4	0.0	9256.4
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	9256.4	0.0	9256.4
	% Fixture	50.0	0.0	50.0
Total	Lumens	18512.9	0.0	18512.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	125.2	0.7
10°-20°	380.2	2.1
20°-30°	694.8	3.8
30°-40°	1197.9	6.5
40°-50°	2047.8	11.1
50°-60°	3319.3	17.9
60°-70°	5506.6	29.7
70°-80°	4850.0	26.2
80°-90°	391.0	2.1
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°	18512.9	100.0
0°-180°	18512.9	100.0



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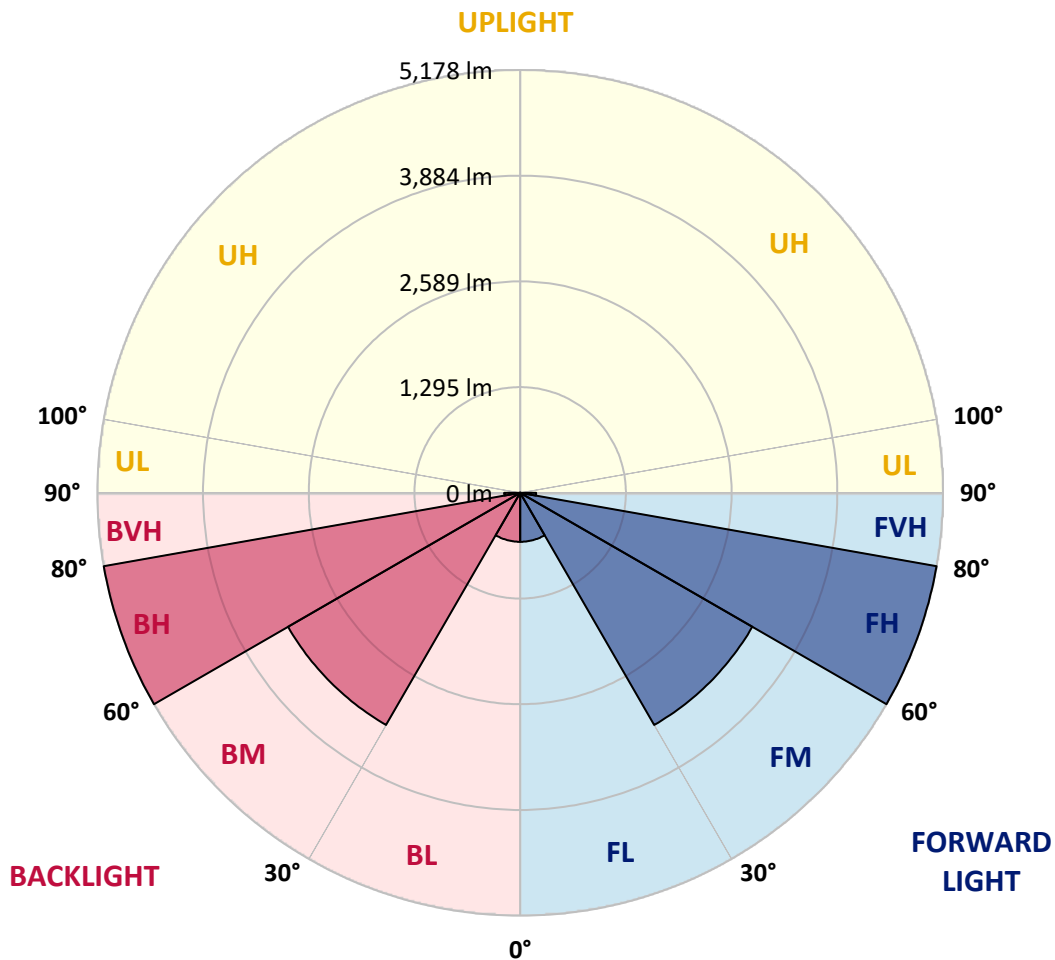
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	600.1	3.2			
FM	(30°-60°)	3282.5	17.7			
FH	(60°-80°)	5178.3	28.0			G3/7500
FVH	(80°-90°)	195.5	1.1			G2/225
BL	(0°-30°)	600.1	3.2	B2/1000		
BM	(30°-60°)	3282.5	17.7	B3/5000		
BH	(60°-80°)	5178.3	28.0	B5		G3/7500
BVH	(80°-90°)	195.5	1.1			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1311.0	1311.0	1311.0	1311.0	1311.0	1311.0	1311.0	1311.0	1311.0	1311.0	1311.0
2.5°	1311.0	1311.8	1312.8	1311.8	1311.8	1311.0	1310.1	1311.0	1310.1	1308.5	1309.3
5°	1315.3	1316.9	1316.9	1315.3	1316.1	1315.3	1313.6	1314.4	1312.8	1310.1	1310.1
7.5°	1320.3	1321.2	1321.2	1319.6	1320.3	1318.6	1316.9	1316.1	1314.4	1311.0	1308.5
10°	1327.9	1328.8	1327.9	1326.3	1326.3	1323.7	1319.6	1317.7	1314.4	1309.3	1306.7
12.5°	1336.5	1337.4	1336.5	1334.8	1333.9	1329.6	1326.3	1323.7	1321.2	1316.9	1312.8
15°	1348.4	1350.0	1348.4	1345.0	1342.5	1339.0	1337.4	1338.2	1339.0	1335.5	1331.4
17.5°	1370.4	1371.3	1368.7	1361.1	1357.6	1354.3	1354.3	1356.0	1358.5	1356.9	1352.6
20°	1411.2	1408.7	1402.7	1393.4	1389.1	1383.2	1382.3	1383.2	1383.2	1382.3	1379.0
22.5°	1462.1	1460.5	1452.8	1440.9	1435.0	1431.7	1426.5	1422.2	1421.4	1418.8	1415.5
25°	1523.3	1522.4	1513.1	1502.9	1498.6	1494.4	1490.2	1484.2	1479.2	1473.2	1469.7
27.5°	1601.4	1598.0	1584.4	1579.4	1573.4	1570.8	1564.9	1558.0	1553.8	1546.2	1541.9
30°	1687.2	1687.2	1676.1	1674.4	1674.4	1668.5	1661.8	1649.9	1642.1	1634.5	1632.0
32.5°	1773.0	1773.8	1762.7	1766.0	1768.7	1773.0	1774.6	1770.3	1765.3	1764.4	1759.3
35°	1896.8	1893.5	1882.4	1884.9	1884.1	1883.3	1883.3	1892.6	1894.3	1895.9	1885.9
37.5°	2050.6	2050.6	2039.6	2039.6	2034.4	2029.4	2022.5	2028.5	2037.8	2040.4	2033.6
40°	2226.3	2232.2	2218.7	2217.9	2219.5	2203.4	2195.8	2205.1	2211.1	2221.2	2213.6
42.5°	2433.5	2429.3	2415.7	2414.0	2404.6	2399.6	2392.8	2400.4	2409.7	2416.5	2419.1
45°	2632.2	2628.8	2613.5	2613.5	2604.2	2600.0	2603.3	2616.1	2620.2	2629.7	2638.9
47.5°	2828.2	2824.2	2813.9	2818.2	2819.0	2826.6	2837.7	2849.6	2861.4	2874.2	2878.4
50°	3028.6	3029.5	3018.5	3028.6	3041.4	3062.6	3092.4	3111.9	3136.5	3152.6	3157.8
52.5°	3211.2	3214.6	3226.5	3250.4	3275.8	3317.4	3368.4	3415.9	3456.6	3483.8	3482.1
55°	3430.3	3435.4	3464.3	3505.0	3546.7	3609.5	3685.1	3769.1	3837.0	3876.1	3851.5
57.5°	3710.6	3721.6	3753.8	3809.0	3871.0	3952.6	4056.1	4182.7	4287.9	4340.6	4300.7
60°	4095.1	4101.9	4141.0	4202.1	4276.9	4377.9	4516.3	4686.1	4834.7	4904.3	4858.5
62.5°	4602.1	4614.8	4646.2	4708.2	4784.7	4899.3	5068.2	5280.5	5465.5	5562.4	5458.8
65°	5207.6	5248.3	5274.6	5337.5	5408.8	5530.1	5706.7	5934.3	6133.0	6196.6	6077.0
67.5°	5806.9	5842.6	5888.4	5960.6	6032.9	6169.6	6333.4	6554.1	6772.3	6830.2	6644.2
70°	6069.4	6089.7	6161.0	6259.5	6397.9	6559.3	6748.6	6996.5	7266.5	7314.2	7078.1
72.5°	5543.7	5564.1	5643.9	5811.2	6052.3	6308.7	6639.0	7003.3	7359.9	7413.5	7088.2
75°	4192.9	4159.7	4277.7	4499.3	4824.6	5182.0	5643.9	6166.1	6681.5	6748.6	6360.5
77.5°	2166.9	2162.7	2251.9	2526.9	2914.9	3321.7	3830.3	4420.4	4924.8	5128.5	4812.7
80°	610.5	617.4	659.7	796.5	1023.1	1316.9	1714.3	2267.1	2679.7	2890.4	2713.7
82.5°	239.5	258.1	274.2	299.7	329.4	372.8	497.5	740.4	993.3	1187.0	972.2
85°	85.8	91.7	129.9	153.7	156.2	164.8	187.6	219.1	264.1	315.0	259.0
87.5°	32.2	35.6	41.6	68.8	68.0	62.0	75.6	79.0	59.4	54.3	67.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1311.0	1311.0	1311.0	1311.0	1311.0	1311.0	1311.0	1311.0
2.5°	1307.7	1308.5	1308.5	1309.3	1310.1	1310.1	1311.8	1311.8
5°	1308.5	1308.5	1306.7	1307.7	1306.7	1306.7	1307.7	1307.7
7.5°	1306.7	1305.8	1304.2	1303.4	1301.6	1301.6	1301.6	1301.6
10°	1304.2	1303.4	1301.6	1300.8	1299.9	1299.9	1299.9	1299.9
12.5°	1311.0	1308.5	1306.7	1305.8	1305.8	1305.8	1305.8	1305.8
15°	1328.8	1322.9	1318.6	1318.6	1319.6	1321.2	1321.2	1322.9
17.5°	1350.9	1344.1	1339.8	1336.5	1338.2	1340.7	1342.5	1344.1
20°	1377.2	1373.8	1367.9	1364.5	1364.5	1367.9	1369.6	1370.4
22.5°	1413.7	1411.2	1408.7	1404.4	1404.4	1406.0	1409.5	1409.5
25°	1468.1	1466.4	1464.7	1461.4	1460.5	1460.5	1462.1	1463.8
27.5°	1535.9	1536.8	1535.2	1534.3	1531.9	1530.9	1533.5	1532.6
30°	1626.9	1631.1	1635.4	1632.0	1627.8	1625.1	1622.6	1619.2
32.5°	1750.0	1744.9	1741.5	1735.6	1727.9	1721.2	1716.0	1710.1
35°	1866.2	1857.9	1854.4	1859.5	1858.7	1854.4	1848.4	1843.4
37.5°	2009.0	2007.3	2009.0	2018.3	2016.6	2020.9	2009.0	2008.0
40°	2189.0	2190.6	2202.5	2213.6	2219.5	2225.5	2218.7	2211.9
42.5°	2397.8	2397.0	2401.2	2416.5	2426.7	2433.5	2419.1	2417.4
45°	2618.6	2612.6	2616.1	2628.8	2638.9	2646.6	2630.5	2630.5
47.5°	2861.4	2851.2	2840.2	2854.6	2860.6	2865.7	2853.0	2848.7
50°	3132.4	3111.0	3087.3	3093.2	3093.2	3091.6	3075.4	3074.5
52.5°	3443.1	3404.0	3360.7	3344.5	3335.2	3325.1	3297.0	3283.5
55°	3800.6	3741.9	3674.1	3632.5	3610.4	3582.3	3535.6	3522.8
57.5°	4218.3	4126.6	4009.4	3958.5	3909.2	3863.4	3811.6	3797.2
60°	4713.3	4578.3	4423.0	4328.7	4275.2	4231.1	4177.5	4175.1
62.5°	5265.2	5052.1	4876.3	4791.4	4752.3	4713.3	4662.4	4669.2
65°	5826.5	5604.0	5439.3	5370.5	5334.0	5301.7	5250.8	5258.4
67.5°	6380.0	6175.5	5994.6	5924.1	5883.4	5842.6	5796.8	5804.4
70°	6777.5	6523.6	6319.8	6163.6	6066.0	5955.5	5884.2	5866.3
72.5°	6663.7	6272.2	5948.7	5638.9	5457.2	5309.4	5209.2	5165.9
75°	5767.0	5232.1	4816.0	4435.7	4221.7	4047.6	3921.1	3842.1
77.5°	4282.9	3681.7	3190.1	2751.9	2405.5	2172.8	2009.0	1902.9
80°	2344.3	1783.1	1303.4	916.1	673.4	559.5	494.2	462.7
82.5°	730.2	471.2	347.2	299.7	278.5	266.6	247.0	215.7
85°	232.6	203.8	189.3	180.9	172.4	150.3	103.6	94.3
87.5°	90.0	92.6	91.7	86.7	88.3	63.7	51.0	45.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)