

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: P268173

Luminaire Tested: **GAN-AF-01-LED-U-AFL-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P268173
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24165)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-01-LED-U-AFL-7027
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(1) 70 CRI, 2700K, 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND AUTOMOTIVE FRONTLINE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5555.2 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

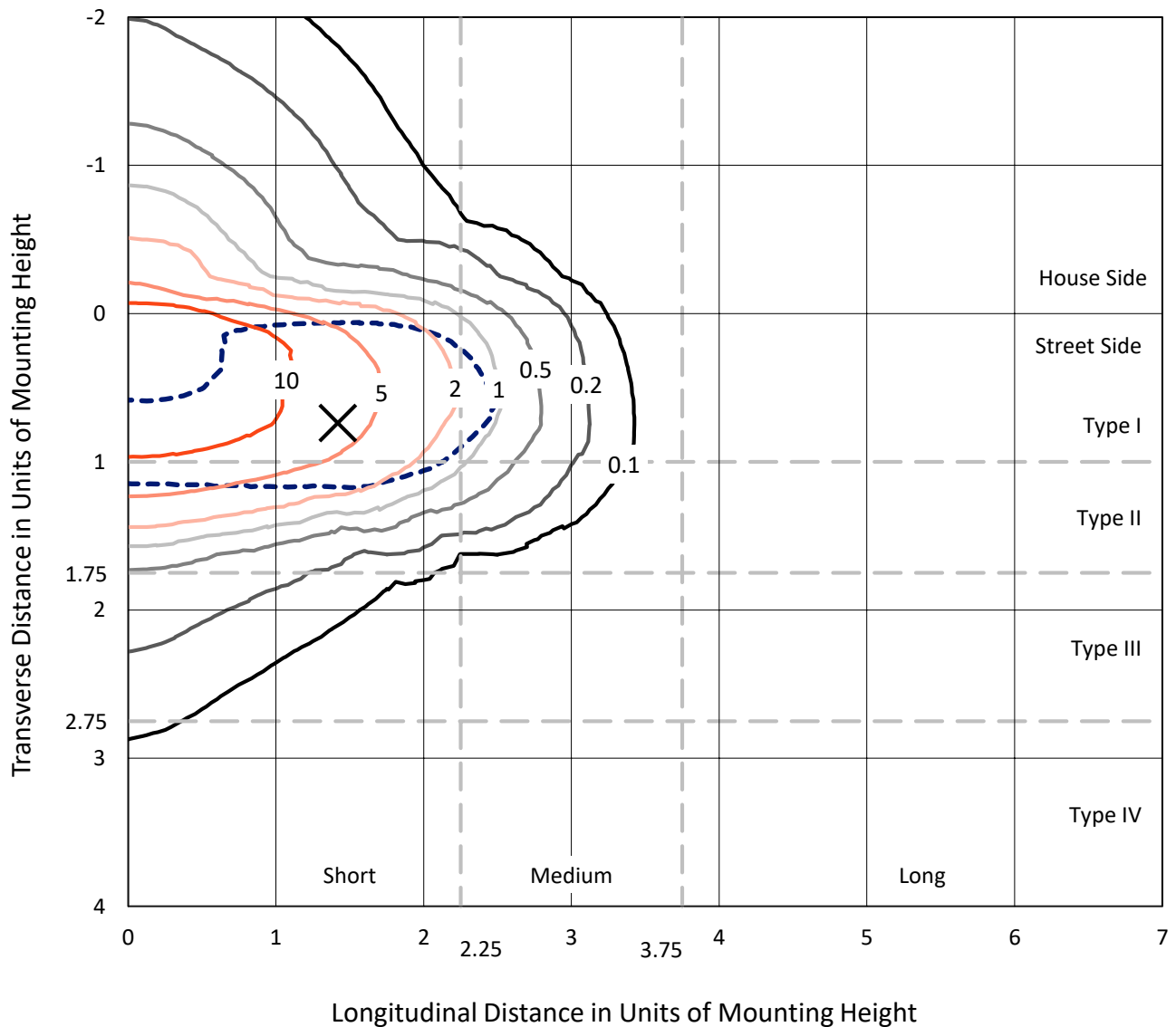
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

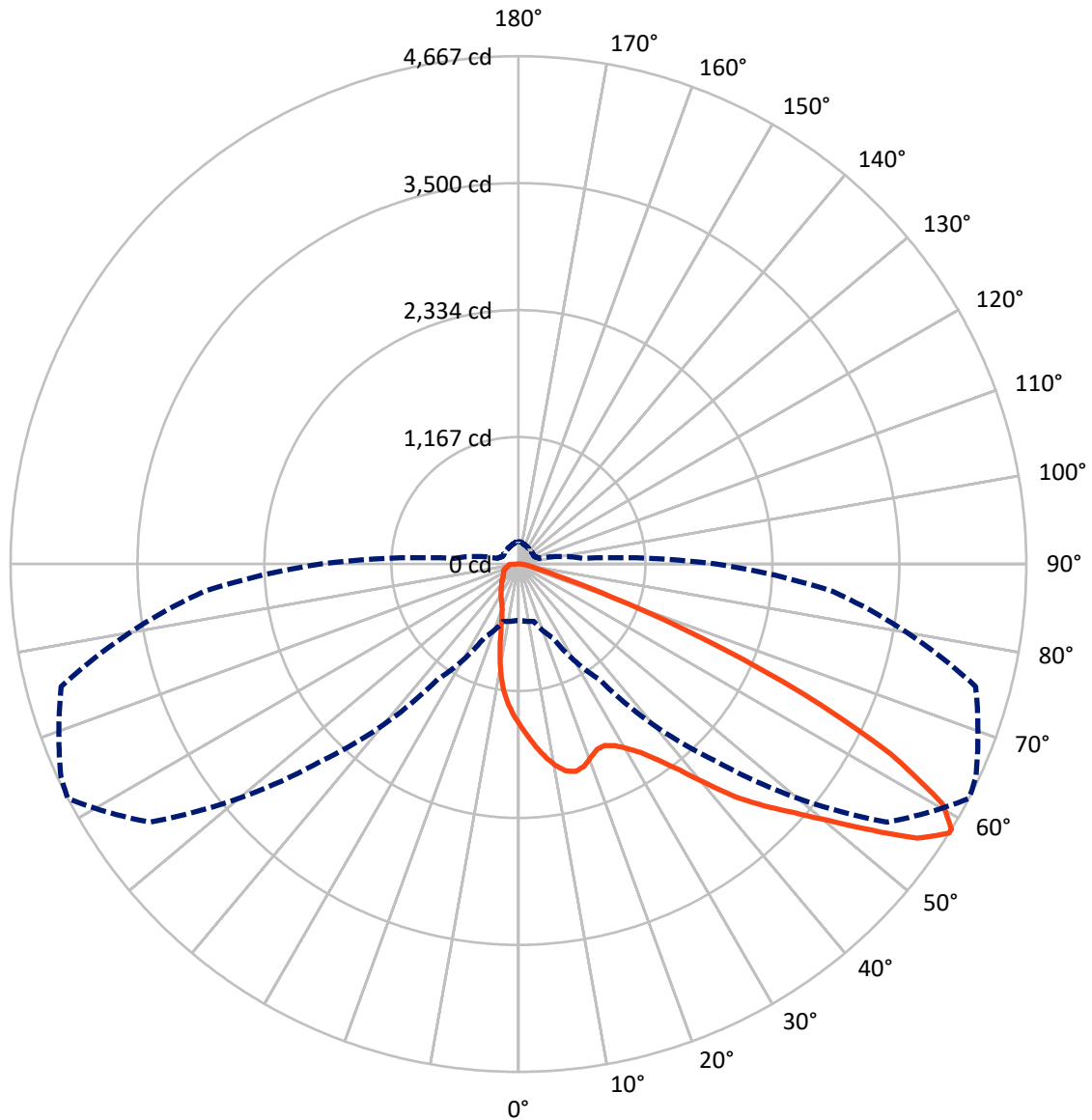
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18 fc
 Type II - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 62.5-Deg Lateral - - - Horizontal Cone Through 58-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	847.2	0.0	847.2
	% Fixture	15.3	0.0	15.3
Street Side	Lumens	4708.0	0.0	4708.0
	% Fixture	84.7	0.0	84.7
Total	Lumens	5555.2	0.0	5555.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.0	2.4
10°-20°	337.3	6.1
20°-30°	545.3	9.8
30°-40°	865.7	15.6
40°-50°	1266.7	22.8
50°-60°	1324.9	23.8
60°-70°	782.7	14.1
70°-80°	220.5	4.0
80°-90°	80.0	1.4
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°	5555.2	100.0
0°-180°	5555.2	100.0



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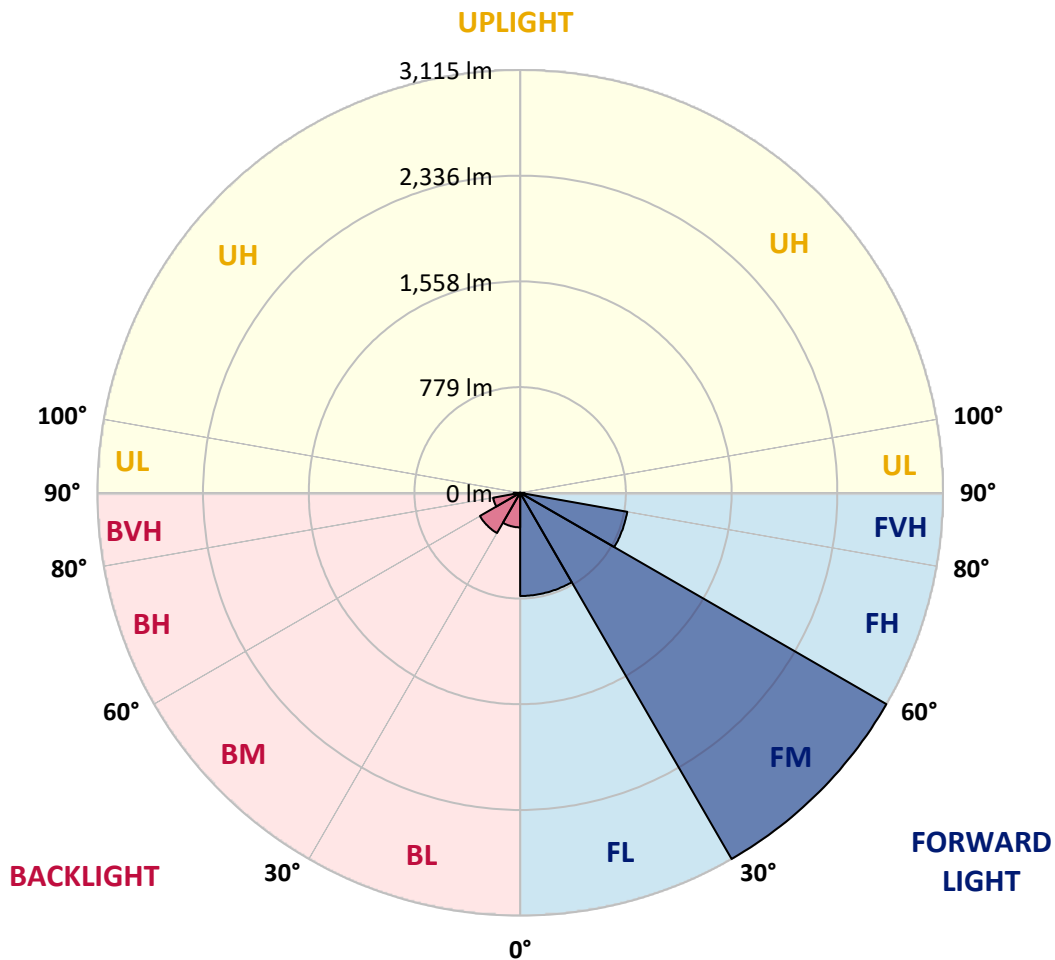
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	760.0	13.7			
FM (30°-60°)	3115.3	56.1			
FH (60°-80°)	801.1	14.4			G1/1800
FVH (80°-90°)	31.6	0.6			G1/100
BL (0°-30°)	254.6	4.6	B1/500		
BM (30°-60°)	341.9	6.2	B1/1000		
BH (60°-80°)	202.1	3.6	B1/500		G1/500
BVH (80°-90°)	48.5	0.9			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	62.5°	65°	75°	85°
0°	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6
2.5°	1686.2	1672.6	1664.0	1656.4	1646.5	1625.3	1596.7	1578.7	1569.5	1538.3	1501.4
5°	1851.5	1839.5	1830.6	1820.3	1802.5	1769.4	1723.4	1686.7	1668.7	1606.3	1532.7
7.5°	1812.8	1817.8	1833.3	1860.2	1883.1	1878.7	1837.7	1791.1	1767.2	1680.6	1568.7
10°	1579.5	1588.2	1614.9	1677.9	1779.8	1884.5	1916.4	1884.3	1860.2	1754.2	1605.9
12.5°	1532.7	1532.4	1534.5	1551.3	1611.9	1759.2	1919.0	1951.5	1937.0	1824.3	1643.8
15°	1551.7	1552.4	1550.7	1557.8	1576.5	1634.9	1839.0	1977.3	1987.6	1895.0	1683.1
17.5°	1601.9	1600.7	1594.6	1594.6	1601.5	1624.1	1744.8	1953.3	2000.3	1957.4	1717.6
20°	1686.2	1680.2	1664.2	1649.6	1642.2	1654.6	1706.2	1897.8	1978.2	2012.2	1746.0
22.5°	1788.3	1783.6	1757.7	1726.3	1700.9	1700.6	1726.0	1849.4	1939.7	2063.6	1770.2
25°	1920.0	1912.5	1874.0	1823.7	1779.4	1762.4	1769.4	1847.0	1918.8	2119.6	1791.6
27.5°	2074.9	2061.0	2015.5	1943.0	1877.6	1843.4	1833.3	1889.8	1937.9	2189.0	1821.5
30°	2262.7	2246.8	2188.5	2093.9	2001.7	1945.4	1923.7	1965.3	2001.2	2273.5	1869.4
32.5°	2476.4	2453.5	2386.0	2281.9	2160.5	2074.6	2039.3	2065.3	2093.8	2375.2	1929.2
35°	2771.8	2744.3	2646.8	2503.1	2366.0	2248.1	2191.5	2210.4	2238.1	2526.9	2015.7
37.5°	2973.2	2961.0	2896.0	2761.1	2611.9	2476.2	2388.9	2399.8	2415.5	2716.7	2126.6
40°	2971.4	2976.4	2977.6	2979.0	2877.5	2747.5	2653.6	2642.1	2639.0	2924.8	2252.8
42.5°	2822.6	2843.0	2908.9	3042.5	3104.3	3044.6	2958.6	2925.3	2908.9	3170.2	2386.4
45°	2594.8	2605.7	2729.1	2990.2	3220.5	3338.9	3273.9	3169.1	3139.3	3395.8	2497.4
47.5°	2477.3	2489.3	2566.9	2851.6	3219.0	3576.7	3614.4	3415.0	3361.6	3591.9	2593.1
50°	2197.7	2222.8	2320.5	2610.4	3101.7	3686.0	3970.4	3708.1	3597.6	3782.9	2689.2
52.5°	1684.1	1722.8	1832.5	2213.9	2803.7	3631.8	4255.4	4063.3	3907.4	3980.6	2771.5
55°	1062.3	1091.1	1183.2	1563.5	2242.9	3350.1	4363.2	4447.5	4308.9	4167.9	2843.0
57.5°	577.6	590.4	625.0	863.2	1458.8	2727.3	4205.9	4666.2	4608.7	4327.0	2896.9
58°	517.0	525.5	547.0	748.2	1293.7	2557.0	4135.9	4667.1	4638.2	4350.2	2901.0
60°	383.4	379.1	360.0	427.0	720.1	1766.4	3713.8	4480.2	4564.6	4378.8	2880.7
62.5°	337.0	326.3	287.2	282.7	350.2	813.9	2841.7	3837.7	4037.3	4216.0	2756.5
65°	316.6	305.1	254.8	238.6	252.8	344.2	1673.9	2878.3	3128.5	3722.7	2439.5
67.5°	301.3	286.4	234.1	211.9	213.0	227.6	670.9	1812.8	2094.6	2826.4	1897.6
70°	286.6	270.5	216.6	191.0	185.0	180.0	266.8	907.5	1163.0	1785.3	1209.8
72.5°	271.0	255.1	201.2	174.5	162.8	146.2	174.2	371.2	518.5	844.6	548.9
75°	248.2	233.9	185.7	159.8	143.1	121.1	131.6	193.9	232.5	336.4	264.6
77.5°	220.3	208.4	168.4	147.9	126.9	98.4	101.1	134.4	149.1	192.5	157.3
80°	158.2	162.5	149.8	132.9	112.9	79.8	77.8	98.1	105.9	123.7	102.2
82.5°	111.2	113.5	124.0	108.5	93.3	62.8	57.3	69.1	73.8	81.3	55.2
85°	76.6	74.0	85.0	75.5	67.6	41.9	39.3	46.8	49.6	50.5	28.6
87.5°	46.1	46.1	49.1	40.6	36.3	21.6	21.2	26.7	28.6	27.2	15.7
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°	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6	1475.6
2.5°	1479.6	1461.0	1421.5	1389.8	1349.9	1308.2	1284.9	1260.1	1243.1	1230.8	1250.4
5°	1490.7	1452.9	1371.3	1293.7	1208.3	1119.4	1051.8	989.0	945.3	918.2	943.8
7.5°	1508.6	1450.3	1320.1	1187.9	1034.3	886.3	753.9	670.9	622.5	598.8	613.7
10°	1528.9	1446.0	1260.3	1044.3	824.6	638.1	539.2	505.7	494.6	490.3	492.4
12.5°	1546.1	1437.2	1186.8	870.5	619.2	503.8	475.4	474.6	476.9	477.4	478.2
15°	1558.0	1424.2	1077.7	689.5	495.1	459.2	457.5	462.2	466.7	468.5	469.5
17.5°	1566.1	1397.1	954.4	545.1	443.7	437.4	441.1	447.0	451.8	453.0	454.2
20°	1565.3	1357.7	807.8	454.6	415.6	415.6	421.9	426.6	427.0	425.3	426.2
22.5°	1557.2	1303.5	665.5	406.6	390.9	395.3	401.5	397.1	378.7	366.8	367.5
25°	1543.6	1238.9	543.6	375.9	367.8	375.6	373.9	340.3	314.1	302.4	302.4
27.5°	1531.6	1162.4	450.0	349.3	344.8	354.4	322.0	291.7	280.7	275.2	273.4
30°	1522.9	1080.1	387.3	323.6	323.1	316.1	279.4	271.0	269.2	264.7	263.2
32.5°	1525.1	996.7	347.4	301.1	302.9	270.5	259.0	260.8	259.3	254.5	252.5
35°	1542.3	917.3	321.2	280.7	275.2	244.2	246.9	250.4	249.8	243.4	241.1
37.5°	1573.2	842.3	303.9	263.7	240.1	231.3	235.4	240.7	239.4	234.8	233.3
40°	1605.6	771.6	289.9	250.4	219.5	222.3	226.1	228.9	230.1	231.6	230.4
42.5°	1637.3	698.0	272.5	236.8	210.8	213.9	215.6	218.4	225.5	230.4	230.1
45°	1656.1	628.6	254.8	217.4	204.1	205.9	204.9	210.7	219.1	227.4	227.6
47.5°	1677.0	574.7	240.7	199.7	197.4	198.9	195.7	201.4	209.2	219.1	220.3
50°	1702.4	542.5	229.3	185.5	188.6	188.6	187.8	193.0	204.1	215.6	217.6
52.5°	1731.3	536.3	219.9	175.3	179.8	179.4	180.2	188.0	200.1	211.5	213.2
55°	1766.2	553.3	209.8	167.7	171.0	172.1	174.7	183.7	193.9	206.7	207.5
57.5°	1807.1	587.9	201.7	161.7	163.2	166.6	170.8	178.9	189.9	204.1	204.9
58°	1813.9	595.0	200.4	161.2	161.7	165.6	170.3	178.1	189.2	204.5	205.4
60°	1814.0	619.4	197.4	158.8	155.6	162.1	167.4	175.3	187.8	206.4	208.2
62.5°	1749.8	619.2	195.4	155.3	149.4	157.5	163.5	172.7	186.5	210.8	214.4
65°	1540.8	562.7	185.5	150.1	144.4	153.3	160.1	170.8	190.3	230.1	232.5
67.5°	1205.2	461.2	166.8	142.8	137.9	149.1	158.0	170.6	194.2	234.6	236.3
70°	796.7	344.9	146.6	134.4	131.1	144.2	159.0	179.4	189.6	225.2	221.1
72.5°	413.6	242.3	130.1	124.0	123.2	139.6	174.2	178.5	185.2	211.9	206.7
75°	217.1	168.3	115.6	112.5	113.7	138.7	205.6	173.7	179.4	202.7	212.7
77.5°	132.9	135.7	103.3	102.0	104.7	135.6	205.4	167.7	171.0	186.5	197.4
80°	88.9	110.1	94.0	94.1	95.9	124.0	184.4	158.2	160.8	176.2	187.6
82.5°	56.2	65.1	85.2	89.7	87.3	102.2	156.7	144.2	147.9	201.7	213.2
85°	28.6	40.9	74.0	86.3	78.7	71.7	127.1	126.3	128.2	145.4	152.1
87.5°	13.0	22.5	57.9	75.4	59.4	44.7	92.3	93.7	101.0	103.3	103.3
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)