

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: P191250

Luminaire Tested: **GAN-AF-02-LED-U-SL4**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P191250
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-AF-02-LED-U-SL4
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV
SPILL LIGHT ELIMINATOR OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11837.6 lumens
Efficiency: N/A
Efficacy: 104.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G3

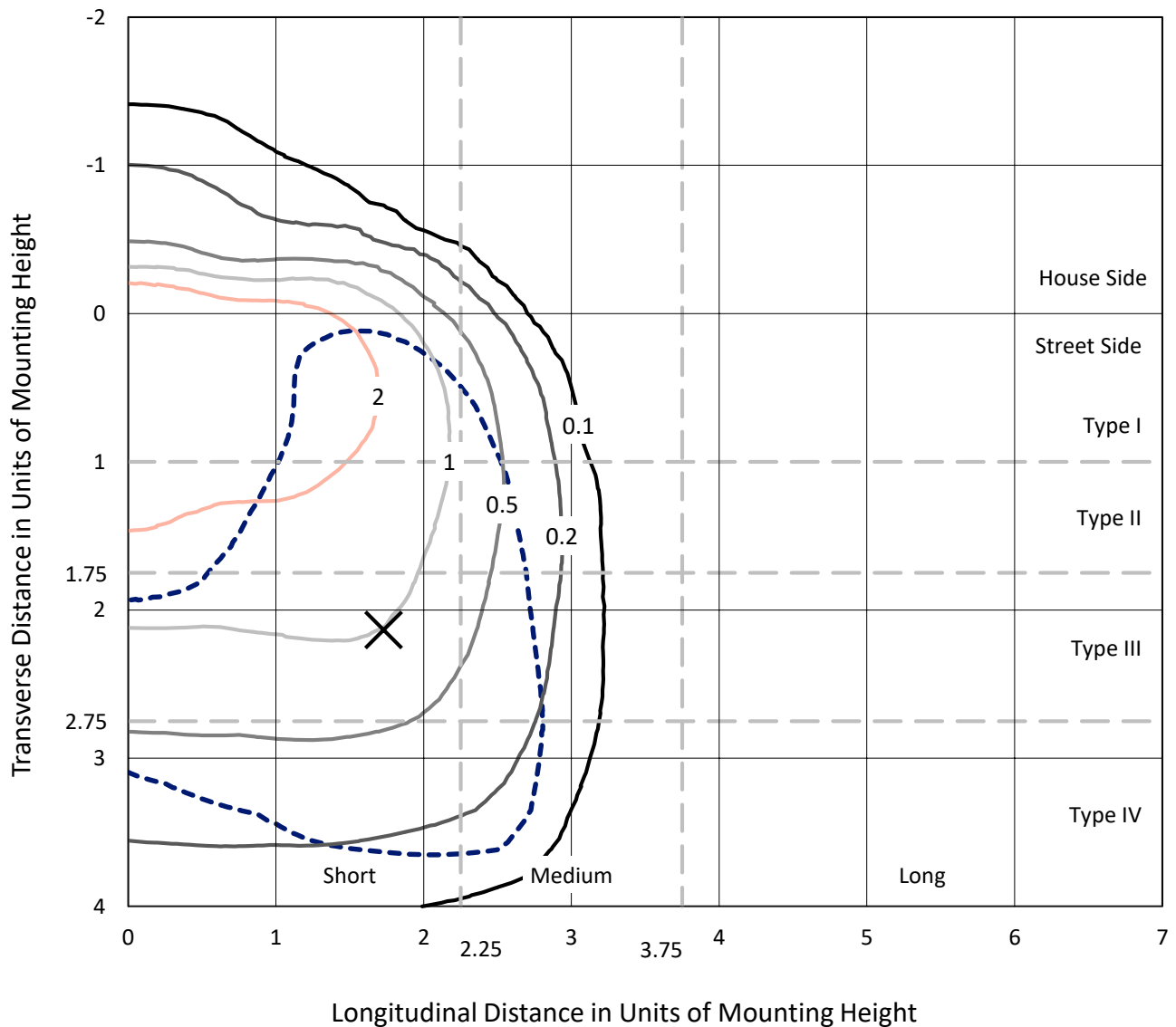
Input Watts (W): 113
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

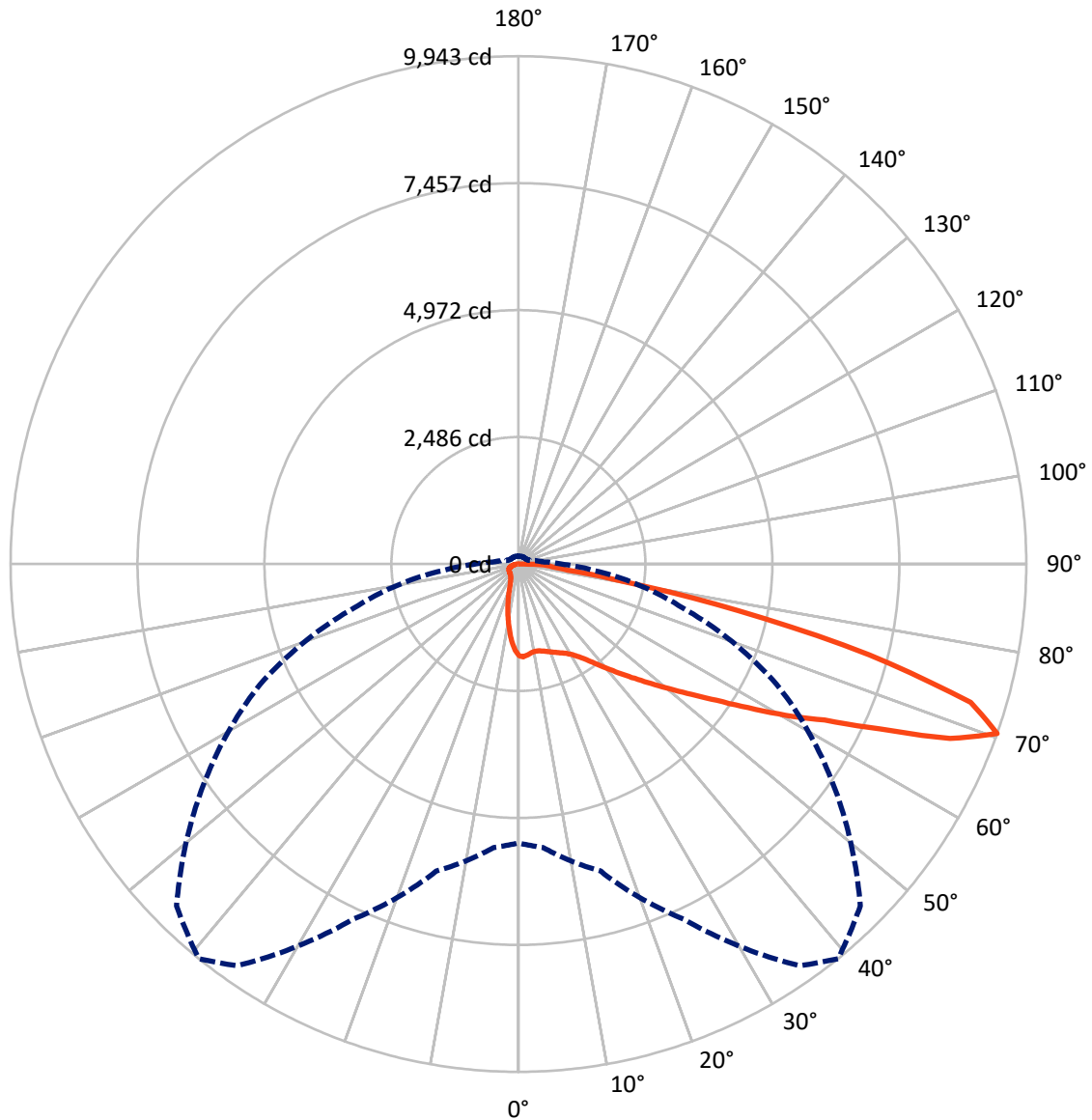


Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1346.3	0.0	1346.3
	% Fixture	11.4	0.0	11.4
Street Side	Lumens	10491.2	0.0	10491.2
	% Fixture	88.6	0.0	88.6
Total	Lumens	11837.6	0.0	11837.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	1.3
10°-20°	385.5	3.3
20°-30°	600.3	5.1
30°-40°	935.1	7.9
40°-50°	1569.8	13.3
50°-60°	2493.8	21.1
60°-70°	3326.5	28.1
70°-80°	2008.8	17.0
80°-90°	363.6	3.1
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°	11837.6	100.0
0°-180°	11837.6	100.0



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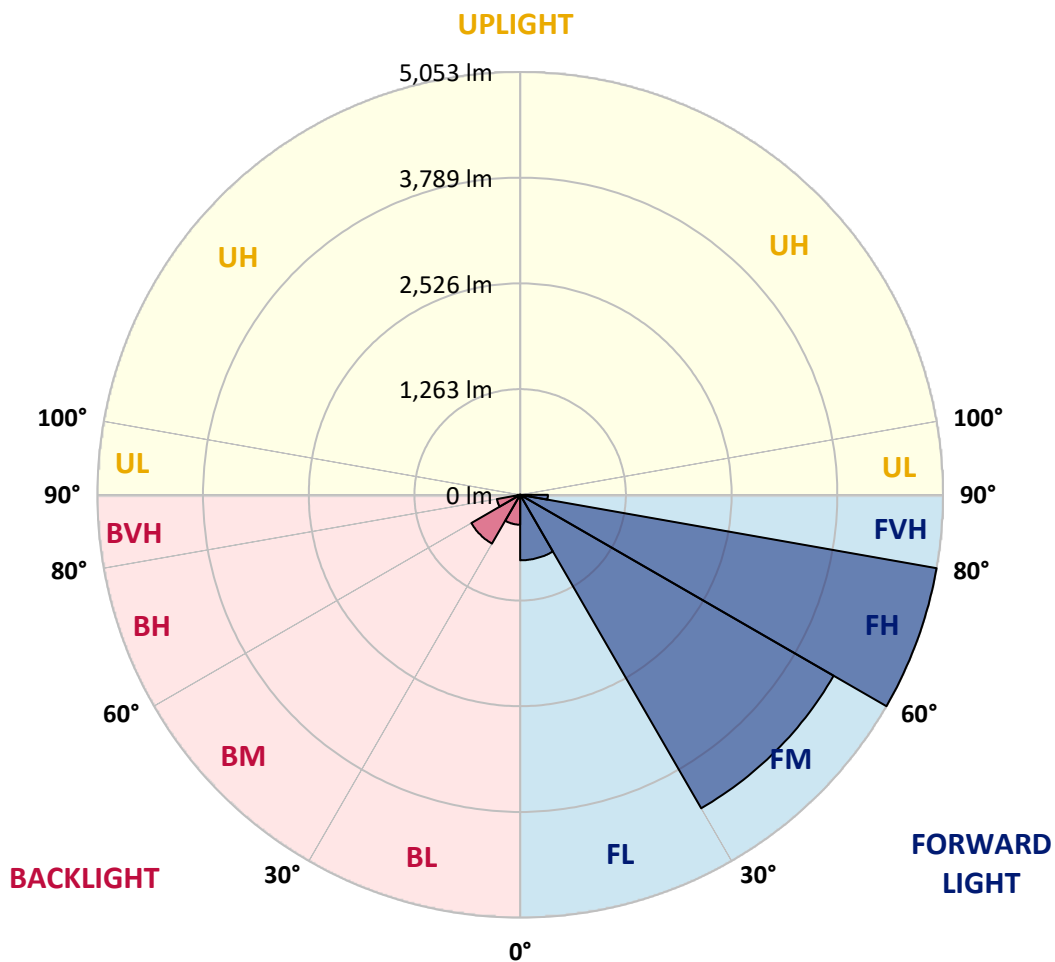
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	782.8	6.6			
FM	(30°-60°)	4325.0	36.5			
FH	(60°-80°)	5052.6	42.7			G3/7500
FVH	(80°-90°)	330.8	2.8			G3/500
BL	(0°-30°)	357.2	3.0	B1/500		
BM	(30°-60°)	673.8	5.7	B1/1000		
BH	(60°-80°)	282.6	2.4	B1/500		G1/500
BVH	(80°-90°)	32.8	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	1797.1	1797.1	1797.1	1797.1	1797.1	1797.1	1797.1	1797.1	1797.1	1797.1	1797.1
2.5°	1832.0	1831.4	1826.6	1823.0	1820.0	1818.8	1821.2	1812.2	1804.4	1794.8	1784.5
5°	1818.2	1817.6	1809.8	1802.5	1795.3	1792.9	1792.3	1776.0	1766.4	1752.0	1732.8
7.5°	1803.2	1800.2	1789.9	1777.9	1765.2	1759.2	1753.2	1732.2	1721.3	1706.9	1684.6
10°	1787.5	1783.9	1774.3	1762.2	1750.2	1741.2	1730.9	1710.5	1699.0	1688.2	1662.3
12.5°	1771.2	1768.3	1765.8	1760.4	1752.0	1744.1	1736.4	1718.9	1706.9	1694.2	1664.1
15°	1768.9	1767.7	1773.1	1776.7	1771.9	1767.0	1758.7	1743.5	1730.9	1718.3	1679.2
17.5°	1788.1	1787.5	1801.3	1810.9	1808.6	1800.2	1788.7	1771.9	1761.6	1750.8	1702.0
20°	1830.3	1833.2	1850.1	1862.7	1850.7	1838.7	1820.0	1796.5	1791.1	1786.3	1725.5
22.5°	1909.6	1912.7	1924.7	1929.5	1898.3	1880.8	1854.9	1824.8	1821.2	1824.8	1753.7
25°	2033.6	2030.7	2028.8	2010.8	1953.6	1926.5	1893.4	1862.2	1863.9	1880.2	1793.5
27.5°	2197.9	2181.7	2156.5	2102.3	2011.4	1981.3	1940.9	1912.1	1923.6	1954.9	1853.1
30°	2368.3	2350.2	2291.8	2203.3	2087.2	2054.1	2009.0	1976.4	2006.6	2055.9	1932.6
32.5°	2526.0	2523.5	2438.1	2324.3	2192.0	2163.0	2117.9	2081.2	2130.0	2205.2	2051.7
35°	2698.1	2703.6	2601.2	2464.6	2333.4	2303.3	2270.7	2243.1	2308.1	2411.6	2224.4
37.5°	2882.3	2893.1	2772.1	2618.0	2494.7	2482.0	2462.8	2450.8	2551.2	2694.5	2465.8
40°	3128.4	3117.5	2949.7	2791.4	2692.7	2692.1	2686.1	2700.5	2867.8	3064.0	2775.8
42.5°	3392.0	3360.2	3138.0	2977.4	2910.0	2930.4	2942.4	3001.4	3248.8	3513.0	3153.7
45°	3676.1	3604.5	3333.7	3174.2	3151.3	3194.7	3235.6	3363.8	3697.1	4024.0	3567.7
47.5°	3903.0	3833.8	3535.8	3380.6	3430.6	3496.1	3575.0	3777.9	4199.1	4551.8	3976.4
50°	4081.8	4036.7	3739.9	3621.3	3738.1	3839.2	3968.0	4246.7	4721.5	5065.8	4355.0
52.5°	4255.1	4221.4	3945.7	3868.1	4099.2	4238.8	4413.9	4749.8	5257.1	5571.3	4673.4
55°	4411.6	4387.5	4167.2	4175.7	4524.1	4705.9	4926.1	5322.8	5840.9	6022.1	4943.0
57.5°	4587.9	4557.2	4420.0	4561.4	5069.9	5305.9	5592.4	5966.8	6388.6	6423.0	5148.2
60°	4765.4	4739.0	4700.5	5006.8	5763.3	6011.3	6282.8	6590.9	6944.2	6734.1	5136.2
62.5°	4919.6	4922.5	4990.6	5474.4	6442.2	6729.3	7060.3	7364.8	7446.7	6788.3	4756.4
65°	5180.7	5228.3	5431.2	6136.5	7398.0	7781.9	8188.2	8139.4	7585.7	6282.1	3942.1
67.5°	5491.3	5575.0	5986.0	7018.8	8605.9	9115.6	9272.7	8314.5	7029.0	5106.7	2810.0
70°	5460.0	5575.0	6225.6	7676.6	9601.3	9943.2	9466.5	7524.9	5581.5	3336.0	1492.6
72.5°	4848.5	5012.9	5737.4	7375.1	9287.8	9257.7	8218.3	5609.9	3316.2	1339.8	583.2
75°	3695.4	3861.4	4485.0	5826.5	7340.8	7088.0	5831.3	3098.9	1258.4	532.0	367.8
77.5°	2125.7	2254.6	2736.0	3573.2	4657.1	4397.8	3245.8	1378.2	612.6	370.7	287.0
80°	1186.8	1258.4	1551.0	1812.8	2282.2	2092.0	1452.3	856.4	457.4	269.0	221.5
82.5°	938.3	1002.1	1254.2	1143.6	1042.4	961.8	834.2	762.5	365.3	169.7	132.4
85°	819.7	880.6	1061.6	900.4	712.0	653.1	677.7	750.5	284.1	102.3	113.1
87.5°	759.5	840.8	946.1	694.0	554.3	491.1	625.3	822.8	91.5	63.8	45.7
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°	1797.1	1797.1	1797.1	1797.1	1797.1	1797.1	1797.1	1797.1	1797.1	1797.1	1797.1
2.5°	1775.4	1765.8	1750.2	1736.4	1714.7	1703.2	1690.6	1681.5	1674.4	1668.3	1677.9
5°	1720.7	1702.6	1669.6	1634.1	1591.9	1558.8	1531.2	1505.3	1487.2	1475.1	1483.6
7.5°	1668.9	1639.5	1587.7	1523.3	1451.1	1389.7	1339.1	1294.5	1263.9	1244.0	1251.9
10°	1639.5	1602.8	1522.7	1421.6	1315.0	1219.4	1139.9	1071.3	1023.8	996.7	1000.9
12.5°	1632.2	1584.7	1474.0	1335.0	1189.3	1056.3	944.3	849.3	782.5	747.5	748.7
15°	1637.6	1576.9	1428.2	1251.9	1067.7	899.8	760.2	644.6	566.9	527.2	526.6
17.5°	1646.6	1570.8	1380.1	1162.2	944.3	749.3	593.4	480.3	411.6	379.7	377.4
20°	1656.3	1561.2	1325.8	1065.3	816.1	609.7	464.6	376.1	332.9	315.4	314.1
22.5°	1670.2	1552.7	1269.9	963.0	690.3	496.5	382.2	322.6	299.7	290.7	289.5
25°	1692.4	1548.5	1210.4	856.4	577.1	415.3	332.9	296.1	282.8	276.8	276.3
27.5°	1729.7	1554.6	1154.4	752.9	485.1	360.5	305.1	282.8	273.2	267.8	267.2
30°	1777.9	1573.2	1095.4	654.8	413.5	323.2	288.3	273.8	266.1	260.6	260.6
32.5°	1857.9	1604.5	1033.4	570.0	362.3	297.3	275.7	266.1	259.4	255.2	254.6
35°	1975.8	1663.5	975.6	499.5	325.6	278.7	264.8	257.6	252.8	250.4	250.4
37.5°	2147.4	1756.8	924.4	449.0	303.3	266.1	254.6	249.2	246.1	246.1	246.1
40°	2378.0	1885.6	882.9	415.3	290.7	257.0	246.7	242.5	240.7	241.3	241.3
42.5°	2662.6	2053.0	855.2	391.8	284.7	251.5	241.3	237.7	235.9	235.3	235.9
45°	2987.0	2243.1	852.2	374.4	278.7	248.0	237.7	234.2	230.5	228.1	228.1
47.5°	3302.4	2436.3	876.9	368.4	272.0	243.8	234.8	231.1	225.7	220.2	220.2
50°	3581.0	2600.6	910.0	370.7	269.6	237.7	229.9	228.1	219.6	213.7	213.1
52.5°	3802.5	2727.0	937.1	378.0	272.0	233.5	223.9	224.5	215.4	208.9	208.3
55°	3980.0	2810.0	929.9	385.1	277.4	231.1	218.5	219.6	212.5	205.8	205.8
57.5°	4057.6	2779.4	849.8	379.2	281.6	231.7	214.3	219.1	213.1	207.0	207.0
60°	3891.0	2506.7	699.9	352.7	276.3	229.9	212.5	221.5	220.9	214.8	214.3
62.5°	3386.6	2018.6	542.9	313.5	257.6	220.9	207.7	220.9	227.5	225.7	225.0
65°	2610.3	1437.9	414.7	271.4	232.3	205.8	195.0	207.0	216.0	218.5	217.9
67.5°	1694.2	881.1	319.6	231.7	204.1	188.4	178.7	184.1	186.0	186.0	184.7
70°	833.0	474.2	254.6	195.0	175.1	169.7	164.3	161.3	158.3	155.9	155.9
72.5°	411.0	310.0	209.4	164.9	151.1	148.6	147.4	143.8	141.5	138.4	137.2
75°	303.9	252.2	178.2	139.0	130.0	127.6	130.0	126.9	126.4	124.0	122.8
77.5°	249.8	214.8	153.4	119.2	111.3	107.1	110.8	111.3	111.9	108.3	107.1
80°	202.9	181.8	128.2	98.7	91.5	88.5	90.8	95.6	96.9	91.5	89.1
82.5°	146.3	148.6	103.5	77.0	71.0	68.6	73.4	79.5	80.6	72.8	71.0
85°	122.8	124.0	79.5	54.7	48.8	45.1	53.0	59.0	63.2	55.3	53.6
87.5°	51.1	72.8	45.7	30.7	27.1	23.4	28.3	31.3	38.0	34.9	34.3
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)