

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: P482578

Luminaire Tested: **IFLD-S-SA6A-827-U-T3-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482578
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA6A-827-U-T3-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3
distribution lens with House Side Shield
Light Source: (96) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

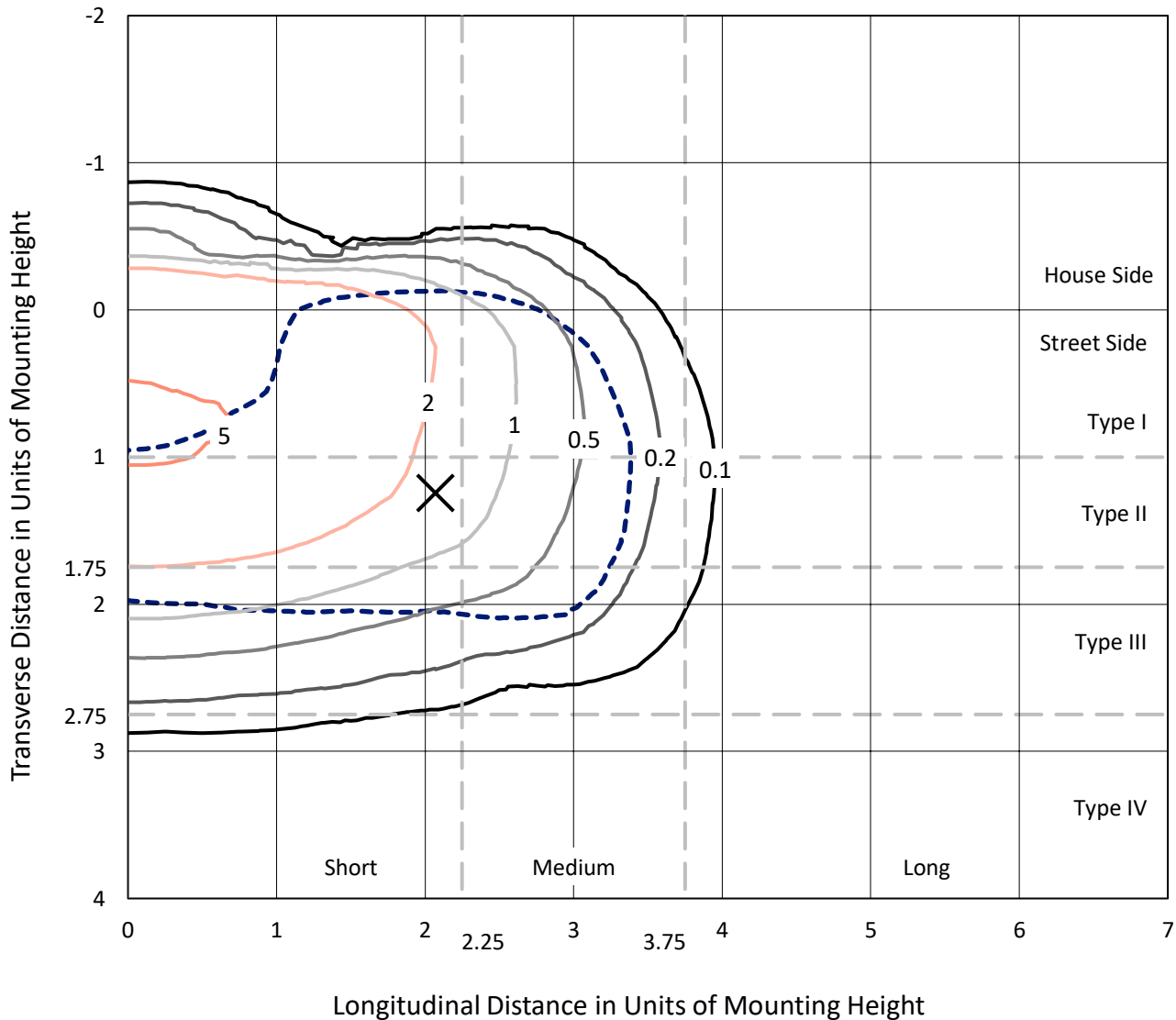
Lumens per Lamp: N/A
Luminaire Lumens: 14722 lumens
Efficiency: N/A
Efficacy: 77.6 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.5')
IES Classification: Type III - Short
BUG Rating: B2 - U0 - G3

Input Watts (W): 189.6
Input Voltage (V): 120
Input Current (A_{in}): 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

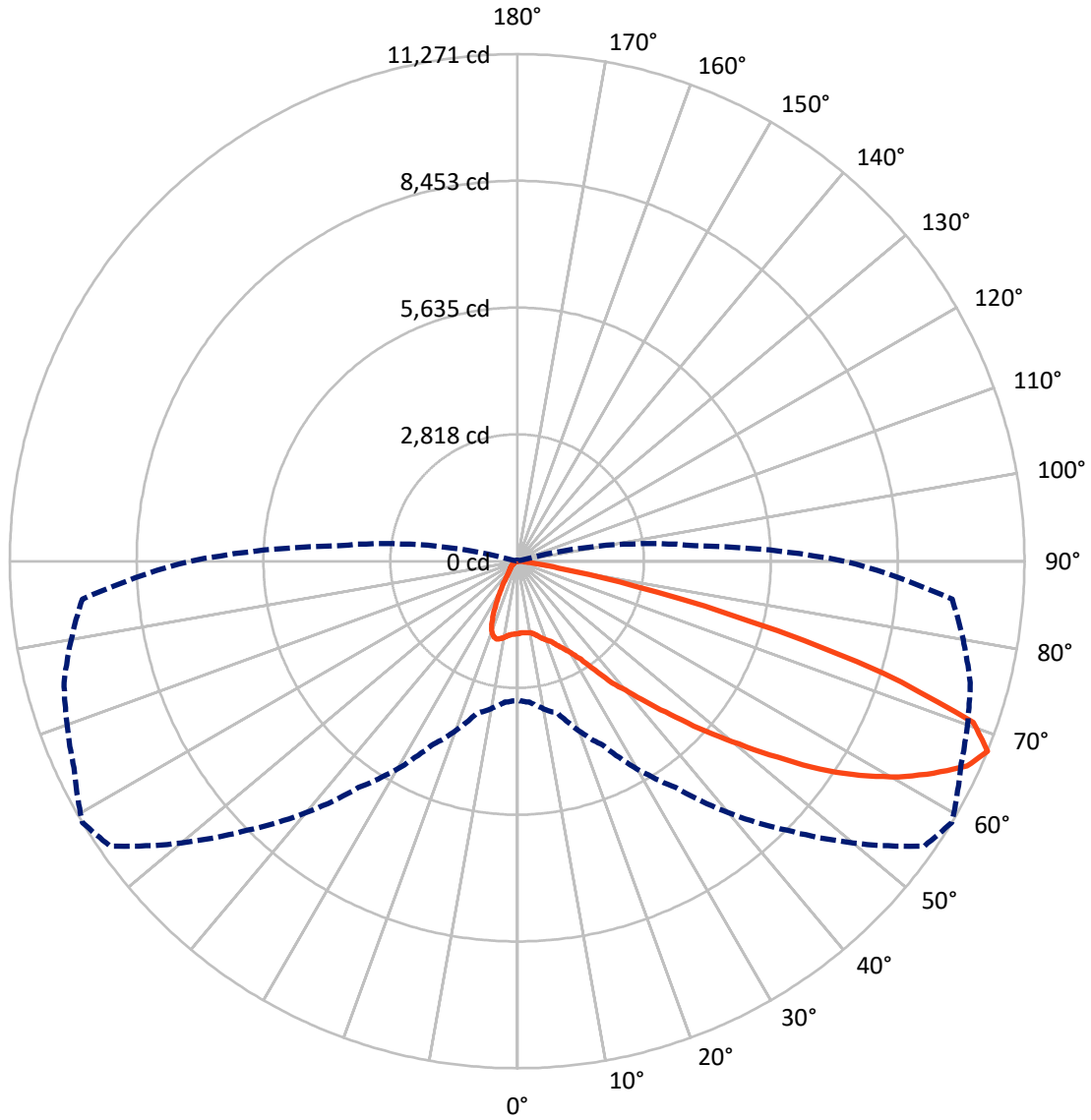
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.8 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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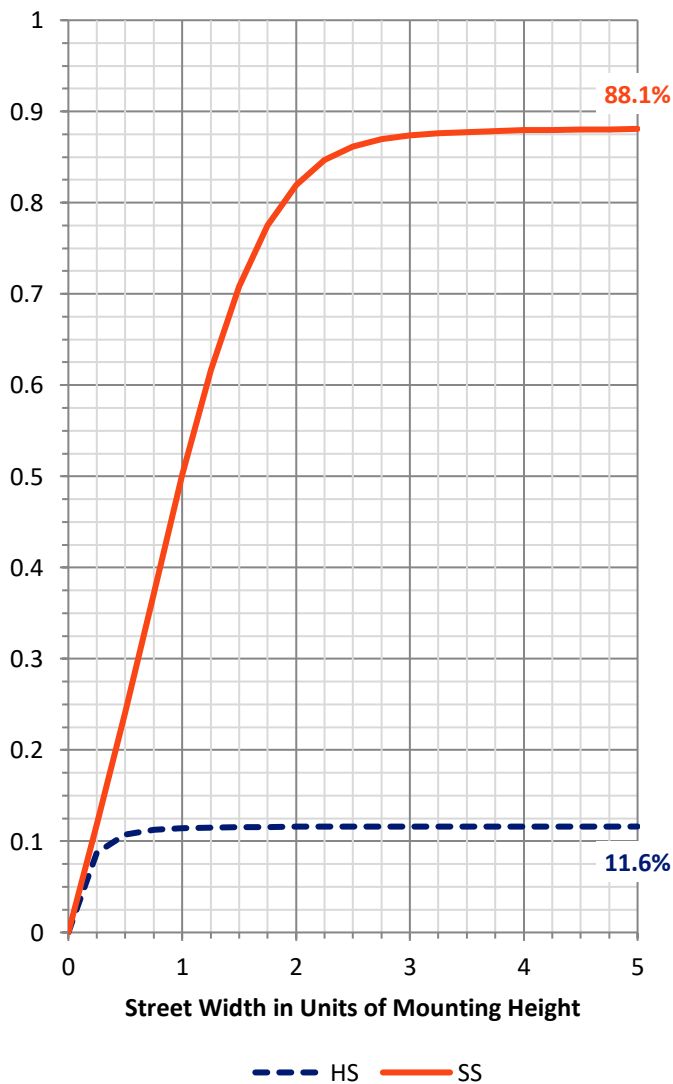
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1729.3	0.0	1729.3
	% Fixture	11.7	0.0	11.7
Street Side	Lumens	12992.6	0.0	12992.6
	% Fixture	88.3	0.0	88.3
Total	Lumens	14722.0	0.0	14722.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.4	1.0
10°-20°	443.1	3.0
20°-30°	774.4	5.3
30°-40°	1363.4	9.3
40°-50°	2410.0	16.4
50°-60°	3815.8	25.9
60°-70°	4232.8	28.8
70°-80°	1468.7	10.0
80°-90°	60.5	0.4
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°	14722.0	100.0
0°-180°	14722.0	100.0

Coefficient of Utilization

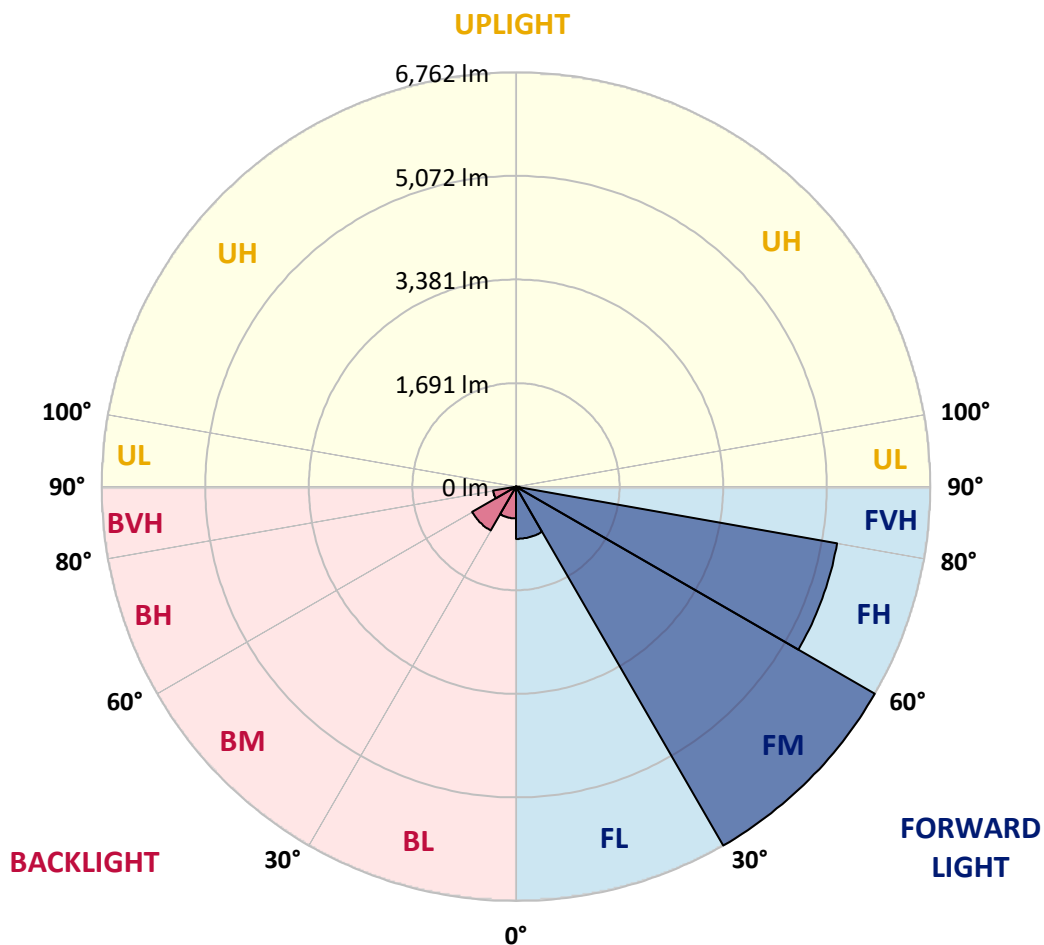


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	852.5	5.8			
FM (30°-60°)	6762.4	45.9			
FH (60°-80°)	5321.2	36.1			G3/7500
FVH (80°-90°)	56.6	0.4			G1/100
BL (0°-30°)	518.3	3.5	B2/1000		
BM (30°-60°)	826.8	5.6	B1/1000		
BH (60°-80°)	380.3	2.6	B1/500		G1/500
BVH (80°-90°)	3.9	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	59°	65°	75°	85°
0°	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7
2.5°	1568.0	1545.6	1565.9	1568.0	1570.0	1588.3	1608.6	1594.4	1592.4	1608.6	1622.9
5°	1504.9	1494.8	1519.2	1531.4	1551.7	1568.0	1600.5	1602.5	1604.6	1622.9	1647.3
7.5°	1478.5	1454.1	1482.5	1496.8	1511.0	1549.7	1588.3	1608.6	1637.1	1659.5	1683.9
10°	1425.6	1443.9	1452.0	1476.4	1517.1	1561.9	1608.6	1618.8	1681.8	1700.2	1759.1
12.5°	1443.9	1456.1	1472.4	1478.5	1523.2	1590.3	1653.4	1657.4	1722.5	1801.8	1832.3
15°	1490.7	1482.5	1488.6	1496.8	1549.7	1604.6	1706.3	1724.6	1785.6	1875.0	1950.3
17.5°	1590.3	1576.1	1565.9	1563.9	1576.1	1626.9	1746.9	1801.8	1858.8	1980.8	2019.4
20°	1840.5	1828.3	1787.6	1681.8	1645.2	1665.6	1795.7	1873.0	1952.3	2088.6	2151.6
22.5°	2220.8	2233.0	2137.4	1988.9	1836.4	1757.1	1873.0	1940.1	2066.2	2239.1	2296.0
25°	2670.2	2645.8	2529.9	2357.0	2117.1	1930.0	1997.1	2072.3	2226.9	2369.2	2391.6
27.5°	3022.0	2993.6	2904.1	2694.6	2487.2	2184.2	2159.8	2206.5	2389.6	2517.7	2493.3
30°	3369.8	3380.0	3319.0	3070.8	2814.6	2495.3	2340.8	2361.1	2501.4	2666.1	2611.2
32.5°	3813.1	3788.7	3754.2	3536.6	3233.5	2891.9	2627.5	2595.0	2656.0	2873.6	2808.5
35°	4226.0	4211.7	4165.0	3945.3	3681.0	3308.8	3050.5	2977.3	2963.1	3205.1	3091.2
37.5°	4585.9	4561.5	4490.4	4350.0	4093.8	3780.6	3497.9	3432.8	3430.8	3597.6	3377.9
40°	4889.0	4907.3	4899.1	4744.6	4604.2	4354.1	3920.9	3817.2	3809.1	3898.6	3770.4
42.5°	5281.5	5324.2	5301.8	5271.3	5102.5	5004.9	4514.8	4356.1	4285.0	4468.0	4352.1
45°	5875.3	5891.6	5905.8	5830.5	5661.8	5682.1	5128.9	4939.8	4921.5	5194.0	4933.7
47.5°	6430.5	6387.8	6487.4	6491.5	6483.4	6389.8	5791.9	5651.6	5676.0	5883.4	5615.0
50°	6568.8	6678.6	6953.1	7004.0	7136.2	7221.6	6528.1	6387.8	6428.4	6664.4	6357.3
52.5°	6676.6	6843.3	7117.9	7490.0	7845.9	8049.3	7351.7	7237.8	7235.8	7380.2	6957.2
55°	6865.7	6967.4	7205.3	7717.8	8395.0	8728.5	8344.2	8161.1	7996.4	8098.1	7579.5
57.5°	6847.4	6886.0	7256.2	7888.6	8830.2	9436.3	9159.7	8984.8	8773.3	8714.3	8295.4
60°	6526.1	6617.6	7032.4	7772.7	9098.7	9987.4	9920.3	9741.3	9377.3	9239.0	8844.5
62.5°	5889.5	6011.5	6336.9	7366.0	8708.2	10015.8	10445.0	10377.8	9971.1	9723.0	9560.3
65°	4773.0	4830.0	5204.2	6332.9	7825.6	9578.6	11065.2	10981.8	10607.6	10237.5	9928.4
67.5°	3091.2	3146.1	3506.1	4520.9	6145.8	8449.9	11040.8	11270.6	10865.9	10420.5	9698.6
70°	1460.2	1445.9	1781.5	2511.6	3937.2	6452.8	10294.5	10748.0	10404.3	9446.4	8055.4
72.5°	445.4	484.0	740.3	1112.4	2021.5	4024.6	8069.6	8494.7	8386.9	7547.0	5377.0
75°	197.3	213.5	290.8	455.5	819.6	1651.3	4984.5	5362.8	5316.0	4451.7	2454.6
77.5°	126.1	138.3	183.0	260.3	372.2	524.7	2296.0	2664.1	2582.8	1563.9	642.6
80°	89.5	95.6	130.2	179.0	233.9	215.6	791.1	939.6	900.9	425.0	172.9
82.5°	48.8	52.9	95.6	132.2	156.6	109.8	221.7	276.6	288.8	189.1	83.4
85°	18.3	22.4	59.0	93.5	81.3	50.8	65.1	79.3	103.7	103.7	38.6
87.5°	0.0	2.0	24.4	40.7	20.3	14.2	18.3	22.4	28.5	48.8	14.2
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°	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7	1614.7
2.5°	1633.0	1618.8	1624.9	1635.1	1612.7	1624.9	1600.5	1618.8	1624.9	1600.5	1612.7
5°	1653.4	1667.6	1659.5	1643.2	1629.0	1633.0	1626.9	1612.7	1624.9	1629.0	1620.8
7.5°	1712.4	1696.1	1700.2	1681.8	1653.4	1651.3	1612.7	1602.5	1606.6	1610.7	1596.4
10°	1767.3	1777.4	1757.1	1742.9	1696.1	1665.6	1612.7	1555.8	1549.7	1525.3	1545.6
12.5°	1864.9	1840.5	1832.3	1785.6	1738.8	1637.1	1523.2	1435.8	1362.6	1336.1	1309.7
15°	1946.2	1942.2	1927.9	1856.7	1749.0	1563.9	1348.3	1145.0	1004.6	917.2	905.0
17.5°	2058.1	2039.8	2013.3	1901.5	1673.7	1372.7	1004.6	748.4	608.1	553.2	532.8
20°	2143.5	2129.3	2092.7	1891.3	1537.5	1022.9	622.3	475.9	441.3	431.1	433.2
22.5°	2267.5	2222.8	2153.7	1840.5	1289.3	681.3	447.4	425.0	418.9	410.8	412.8
25°	2375.3	2334.7	2190.3	1753.0	919.2	451.5	414.9	402.7	392.5	382.3	380.3
27.5°	2470.9	2420.1	2228.9	1574.1	575.5	388.4	384.4	370.1	349.8	333.5	327.4
30°	2564.5	2505.5	2239.1	1238.5	388.4	351.8	341.7	319.3	292.8	270.5	266.4
32.5°	2721.1	2649.9	2224.8	884.6	335.6	313.2	290.8	264.4	225.7	207.4	203.4
35°	2965.1	2857.3	2206.5	520.6	301.0	276.6	242.0	207.4	179.0	160.7	156.6
37.5°	3245.7	3058.6	2153.7	347.8	276.6	244.0	199.3	164.7	140.3	126.1	122.0
40°	3662.6	3353.5	1950.3	284.7	246.1	207.4	160.7	130.2	111.9	101.7	97.6
42.5°	4122.3	3691.1	1637.1	256.2	217.6	176.9	128.1	105.8	91.5	81.3	81.3
45°	4673.4	4042.9	1262.9	233.9	193.2	146.4	105.8	85.4	73.2	65.1	61.0
47.5°	5287.6	4362.2	852.1	211.5	162.7	120.0	87.4	65.1	52.9	46.8	46.8
50°	5836.6	4644.9	543.0	185.1	142.4	99.7	71.2	52.9	42.7	34.6	32.5
52.5°	6334.9	4860.5	374.2	162.7	122.0	81.3	59.0	42.7	32.5	26.4	26.4
55°	6845.3	4970.3	276.6	140.3	105.8	69.1	48.8	38.6	28.5	22.4	20.3
57.5°	7264.3	5017.1	211.5	122.0	89.5	54.9	42.7	32.5	24.4	18.3	16.3
60°	7622.2	4994.7	164.7	101.7	71.2	46.8	36.6	26.4	20.3	14.2	12.2
62.5°	7831.7	4860.5	130.2	87.4	56.9	40.7	30.5	22.4	14.2	10.2	8.1
65°	7835.7	4575.8	101.7	65.1	42.7	34.6	26.4	18.3	10.2	4.1	2.0
67.5°	7274.5	3959.6	81.3	50.8	34.6	26.4	20.3	14.2	4.1	0.0	0.0
70°	5690.2	2995.6	67.1	40.7	28.5	22.4	14.2	8.1	2.0	0.0	0.0
72.5°	3626.0	1793.7	54.9	32.5	24.4	16.3	10.2	6.1	0.0	0.0	0.0
75°	1517.1	553.2	42.7	28.5	18.3	12.2	8.1	2.0	0.0	0.0	0.0
77.5°	390.5	174.9	34.6	24.4	18.3	10.2	6.1	2.0	0.0	0.0	0.0
80°	115.9	65.1	28.5	20.3	14.2	8.1	4.1	2.0	0.0	0.0	0.0
82.5°	52.9	38.6	24.4	18.3	12.2	8.1	4.1	0.0	0.0	0.0	0.0
85°	20.3	12.2	12.2	10.2	10.2	6.1	2.0	0.0	0.0	0.0	0.0
87.5°	8.1	4.1	4.1	4.1	2.0	2.0	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)