

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: P482721

Luminaire Tested: **IFLD-S-SA3C-727-U-T3R-HSS**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P482721
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3C-727-U-T3R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T3R distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

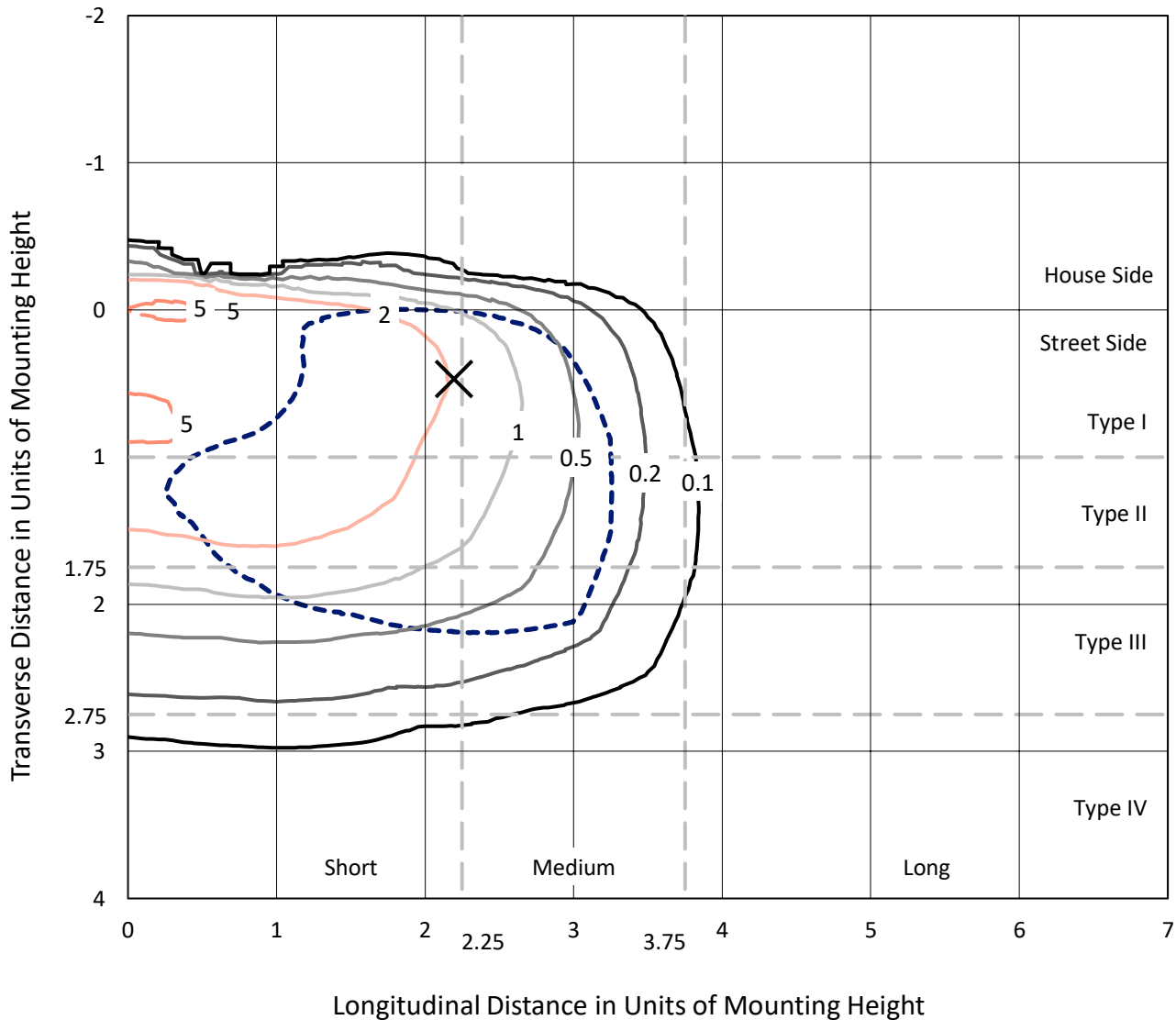
Lumens per Lamp: N/A
Luminaire Lumens: 12698.1 lumens
Efficiency: N/A
Efficacy: 79.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

Input Watts (W): 160.8
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

REPORT NUMBER: P482721
 CATALOG NUMBER: IFLD-S-SA3C-727-U-T3R-HSS

Iso-Footcandle Lines of Horizontal Illumination

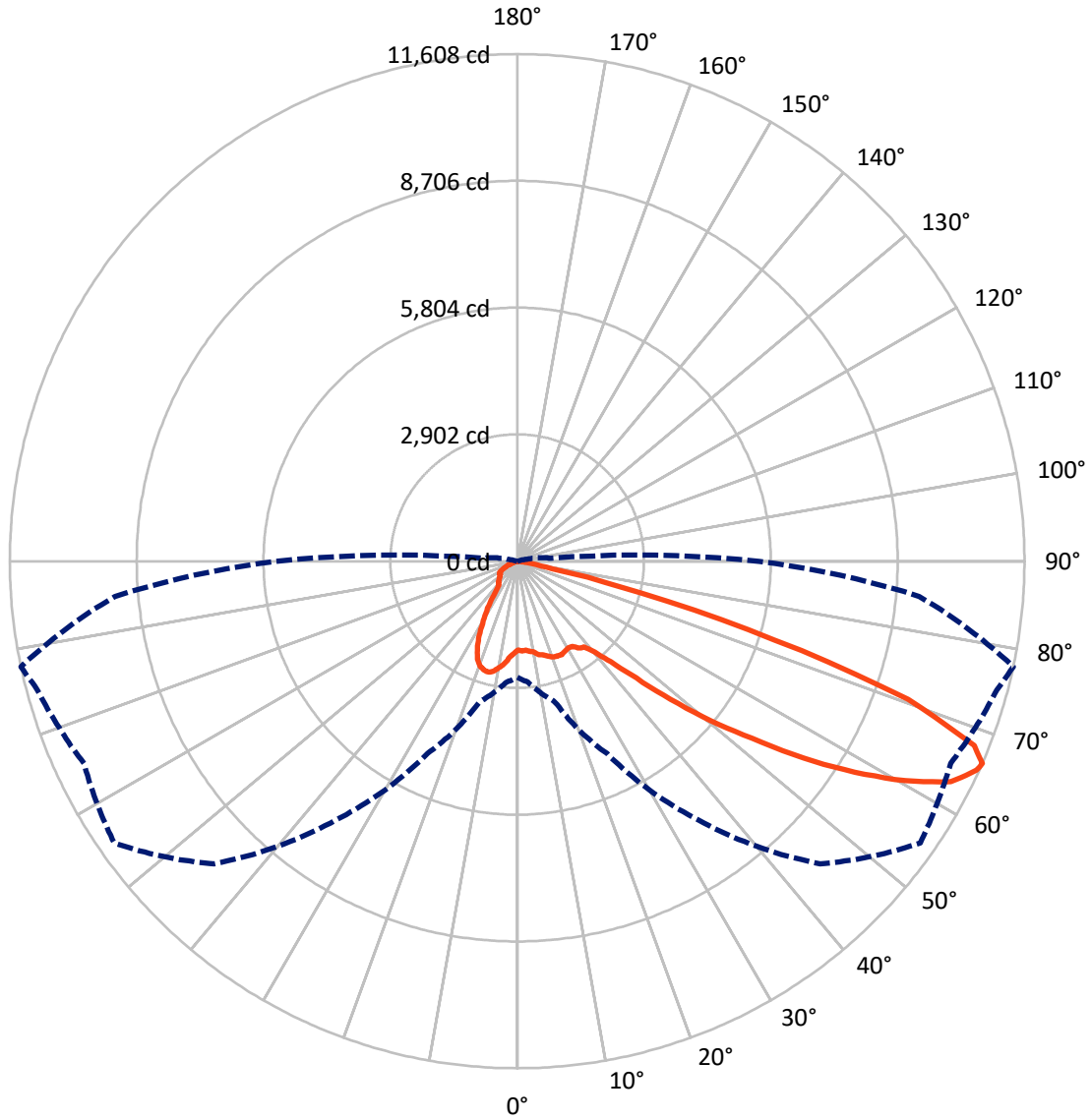
✕ Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P482721
CATALOG NUMBER: IFLD-S-SA3C-727-U-T3R-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 78-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P482721
 CATALOG NUMBER: IFLD-S-SA3C-727-U-T3R-HSS

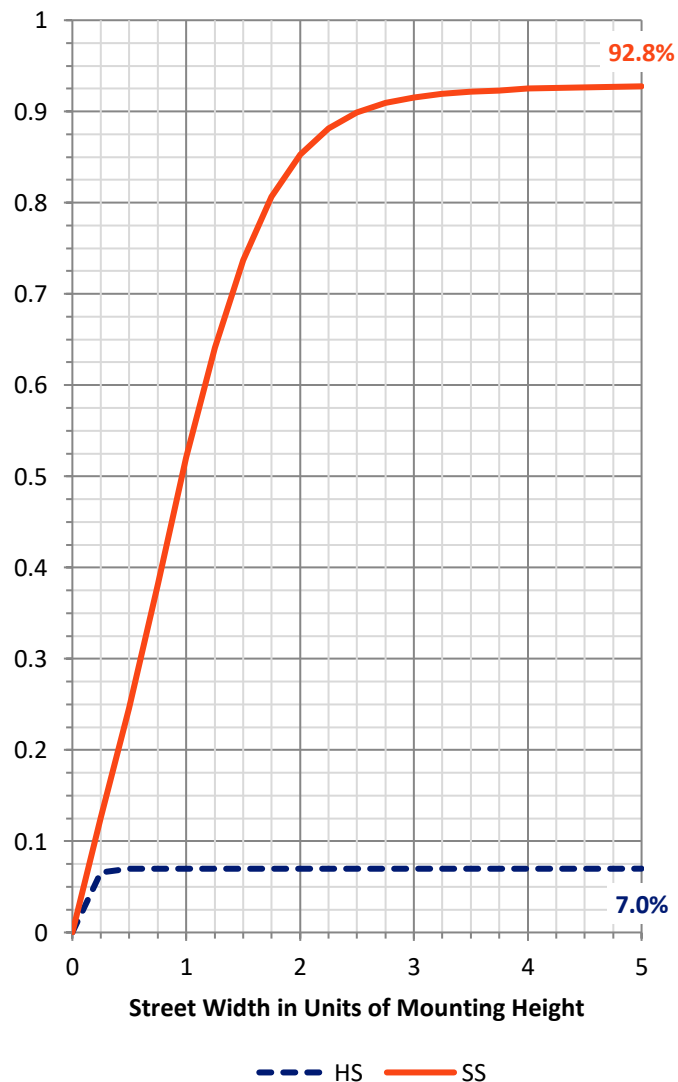
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	892.7	0.0	892.7
	% Fixture	7.0	0.0	7.0
Street Side	Lumens	11805.4	0.0	11805.4
	% Fixture	93.0	0.0	93.0
Total	Lumens	12698.1	0.0	12698.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	186.1	1.5
10°-20°	420.0	3.3
20°-30°	600.3	4.7
30°-40°	1027.6	8.1
40°-50°	1854.7	14.6
50°-60°	3171.8	25.0
60°-70°	3904.0	30.7
70°-80°	1475.9	11.6
80°-90°	57.6	0.5
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°	12698.1	100.0
0°-180°	12698.1	100.0

Coefficient of Utilization

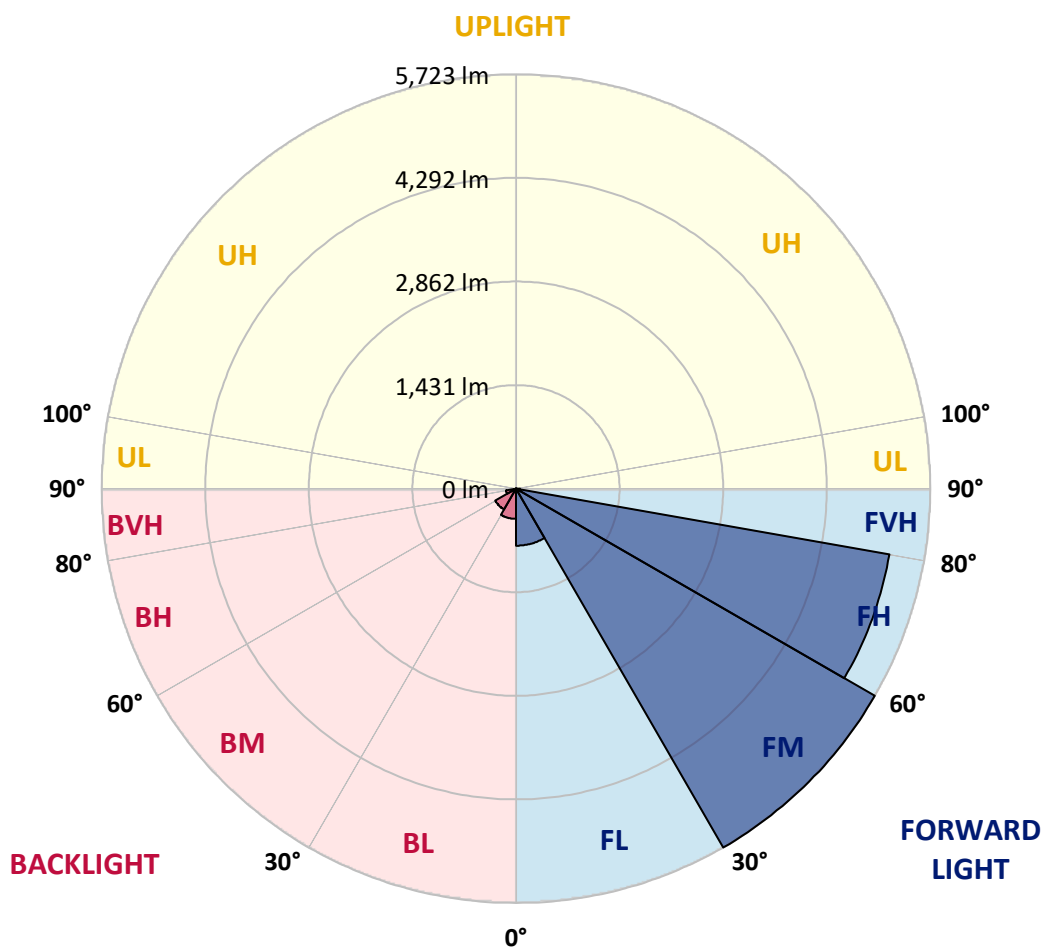


REPORT NUMBER: P482721
 CATALOG NUMBER: IFLD-S-SA3C-727-U-T3R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	788.3	6.2			
FM (30°-60°)	5723.3	45.1			
FH (60°-80°)	5238.4	41.3			G3/7500
FVH (80°-90°)	55.3	0.4			G1/100
BL (0°-30°)	418.1	3.3	B1/500		
BM (30°-60°)	330.9	2.6	B1/1000		
BH (60°-80°)	141.4	1.1	B1/500		G1/500
BVH (80°-90°)	2.3	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-G3
 Type III Short





REPORT NUMBER: P482721

CATALOG NUMBER: IFLD-S-SA3C-727-U-T3R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	78°	85°
0°	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8
2.5°	1870.7	1853.5	1870.7	1895.7	1909.1	1920.6	1960.9	1995.4	2031.9	2056.8	2049.2
5°	1734.5	1767.1	1771.0	1778.6	1799.7	1868.8	1891.8	1951.3	2041.5	2049.2	2083.7
7.5°	1627.1	1617.5	1642.4	1692.3	1746.0	1786.3	1853.5	1957.1	2051.1	2083.7	2150.9
10°	1471.6	1490.8	1517.7	1567.6	1632.8	1732.6	1851.5	1966.7	2101.0	2112.5	2237.2
12.5°	1387.2	1368.0	1410.2	1462.0	1573.3	1665.4	1811.3	1949.4	2131.7	2195.0	2338.9
15°	1318.1	1327.7	1368.0	1402.6	1494.7	1611.7	1782.5	1991.6	2183.5	2227.6	2446.3
17.5°	1289.4	1283.6	1314.3	1348.8	1462.0	1594.4	1771.0	1993.5	2229.5	2287.1	2519.3
20°	1302.8	1314.3	1304.7	1337.3	1408.3	1542.6	1788.2	2030.0	2264.1	2342.7	2597.9
22.5°	1513.9	1498.5	1421.8	1360.4	1364.2	1521.5	1774.8	2053.0	2294.8	2358.1	2651.6
25°	2064.5	1982.0	1792.1	1556.1	1400.7	1464.0	1759.4	2045.3	2289.0	2367.7	2684.3
27.5°	2619.0	2548.0	2361.9	1995.4	1548.4	1440.9	1705.7	2051.1	2260.2	2333.1	2630.5
30°	3204.2	3242.6	2966.3	2530.8	1936.0	1567.6	1671.2	2020.4	2241.0	2302.4	2642.0
32.5°	3804.8	3789.4	3622.5	3150.5	2490.5	1847.7	1726.8	2051.1	2266.0	2325.5	2709.2
35°	4274.9	4221.1	4052.3	3626.3	2949.0	2269.8	1918.7	2196.9	2375.3	2446.3	2805.1
37.5°	4507.0	4530.0	4432.2	4061.9	3451.7	2661.2	2158.5	2196.9	2409.9	2492.4	2960.6
40°	4687.4	4756.5	4720.0	4601.0	3950.6	3102.5	2423.3	2333.1	2584.5	2739.9	3252.2
42.5°	4904.2	4871.6	5086.5	4977.1	4603.0	3659.0	2887.6	2657.4	2997.0	3146.7	3689.7
45°	5019.3	5144.0	5307.1	5447.2	5207.4	4353.5	3494.0	3231.1	3628.3	3818.2	4340.1
47.5°	5314.8	5364.7	5629.5	5806.0	5698.5	5147.9	4414.9	4069.6	4422.6	4721.9	5084.6
50°	5487.5	5420.3	5790.6	6059.3	6120.7	5806.0	5240.0	4971.4	5366.6	5748.4	5781.0
52.5°	5335.9	5527.8	5898.1	6379.7	6550.4	6393.1	6208.9	6091.9	6370.1	6723.1	6565.8
55°	4804.4	4934.9	5836.7	6730.8	7281.5	7208.6	7379.3	7302.6	7582.7	7956.8	7482.9
57.5°	4376.6	4539.6	5332.1	6913.1	7962.6	8177.5	8392.4	8344.4	8682.1	9113.8	8260.0
60°	4109.9	4203.9	4967.5	6867.0	8365.5	9179.1	9664.5	9326.8	9877.5	10207.5	8868.2
62.5°	3647.4	3706.9	4436.0	6256.9	8486.4	9887.1	10710.2	10251.6	10729.4	11132.3	9305.7
65°	2924.1	3085.3	3687.7	5343.6	7688.2	10017.5	11362.5	10823.4	11285.8	11550.6	9438.1
66°	2661.2	2778.3	3330.9	4860.1	7233.5	9800.7	11253.2	10942.3	11366.4	11608.1	9234.7
67.5°	2208.4	2310.1	2749.5	4171.3	6302.9	9323.0	11329.9	10861.8	11427.8	11280.0	8962.2
70°	1462.0	1527.3	1880.3	2820.5	4390.0	7626.8	10508.7	10232.4	10046.3	9491.8	7007.1
72.5°	683.1	777.1	1174.2	1709.6	2574.9	5335.9	8568.9	8198.6	7045.5	6159.0	4420.7
75°	308.9	351.1	644.7	980.5	1155.1	2764.8	5527.8	4992.5	3507.4	2912.6	1936.0
77.5°	166.9	190.0	314.7	466.2	420.2	968.9	2736.1	2275.6	1105.2	809.7	562.2
80°	128.6	151.6	262.9	266.7	155.4	251.3	1016.9	704.2	276.3	209.1	134.3
82.5°	67.2	95.9	207.2	172.7	78.7	101.7	314.7	195.7	86.3	69.1	57.6
85°	26.9	42.2	117.0	115.1	46.0	34.5	88.3	59.5	34.5	28.8	26.9
87.5°	1.9	1.9	63.3	44.1	28.8	9.6	13.4	13.4	17.3	15.3	19.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P482721
 CATALOG NUMBER: IFLD-S-SA3C-727-U-T3R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8	2033.8
2.5°	2083.7	2106.7	2110.6	2173.9	2187.3	2173.9	2208.4	2202.7	2218.0	2206.5	2185.4
5°	2131.7	2164.3	2227.6	2275.6	2275.6	2237.2	2206.5	2166.2	2106.7	2091.4	2079.9
7.5°	2214.2	2317.8	2375.3	2344.7	2283.3	2139.3	1939.8	1794.0	1671.2	1625.1	1604.0
10°	2360.0	2417.6	2484.7	2360.0	2104.8	1799.7	1464.0	1243.3	1070.6	1032.3	1003.5
12.5°	2454.0	2546.1	2584.5	2275.6	1774.8	1320.1	955.5	706.1	585.2	493.1	477.8
15°	2576.8	2682.3	2603.7	2047.3	1398.7	865.3	495.0	308.9	251.3	236.0	236.0
17.5°	2661.2	2776.4	2525.0	1763.3	992.0	460.5	245.6	213.0	209.1	211.1	207.2
20°	2809.0	2878.0	2406.0	1433.3	592.9	236.0	197.6	190.0	186.1	191.9	188.0
22.5°	2864.6	2927.9	2212.3	1038.0	266.7	157.3	147.7	142.0	145.8	143.9	142.0
25°	2860.8	2893.4	1893.8	594.8	78.7	61.4	55.6	55.6	51.8	53.7	51.8
27.5°	2889.6	2809.0	1536.9	176.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	2904.9	2672.7	1093.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	2912.6	2601.8	704.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	2972.1	2459.8	301.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	3012.4	2277.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	3179.3	2219.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	3396.1	2112.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	3697.3	1953.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	4096.4	1859.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	4393.8	1711.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	4771.8	1623.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	5220.8	1627.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	5629.5	1600.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5838.6	1368.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	5794.5	1107.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	5641.0	869.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	5535.4	769.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	5215.0	615.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	4150.1	422.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	2640.1	259.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	1216.5	119.0	3.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	381.8	72.9	15.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	99.8	46.0	15.3	1.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	51.8	32.6	13.4	5.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	32.6	13.4	5.8	3.8	3.8	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	28.8	7.7	3.8	3.8	1.9	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)