

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: P482169

Luminaire Tested: **IFLD-S-SA2B-827-U-T2R-HSS**

Issue Date: 02/26/2021



**Test Information**

Test Method: LM-79-08  
Report Number: P482169  
Test Lab: INNOVATION CENTER(G2)  
Issue Date: 02/26/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: IFLD-S-SA2B-827-U-T2R-HSS  
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield  
Light Source: (32) 2700K CCT, 80 CRI LEDS  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

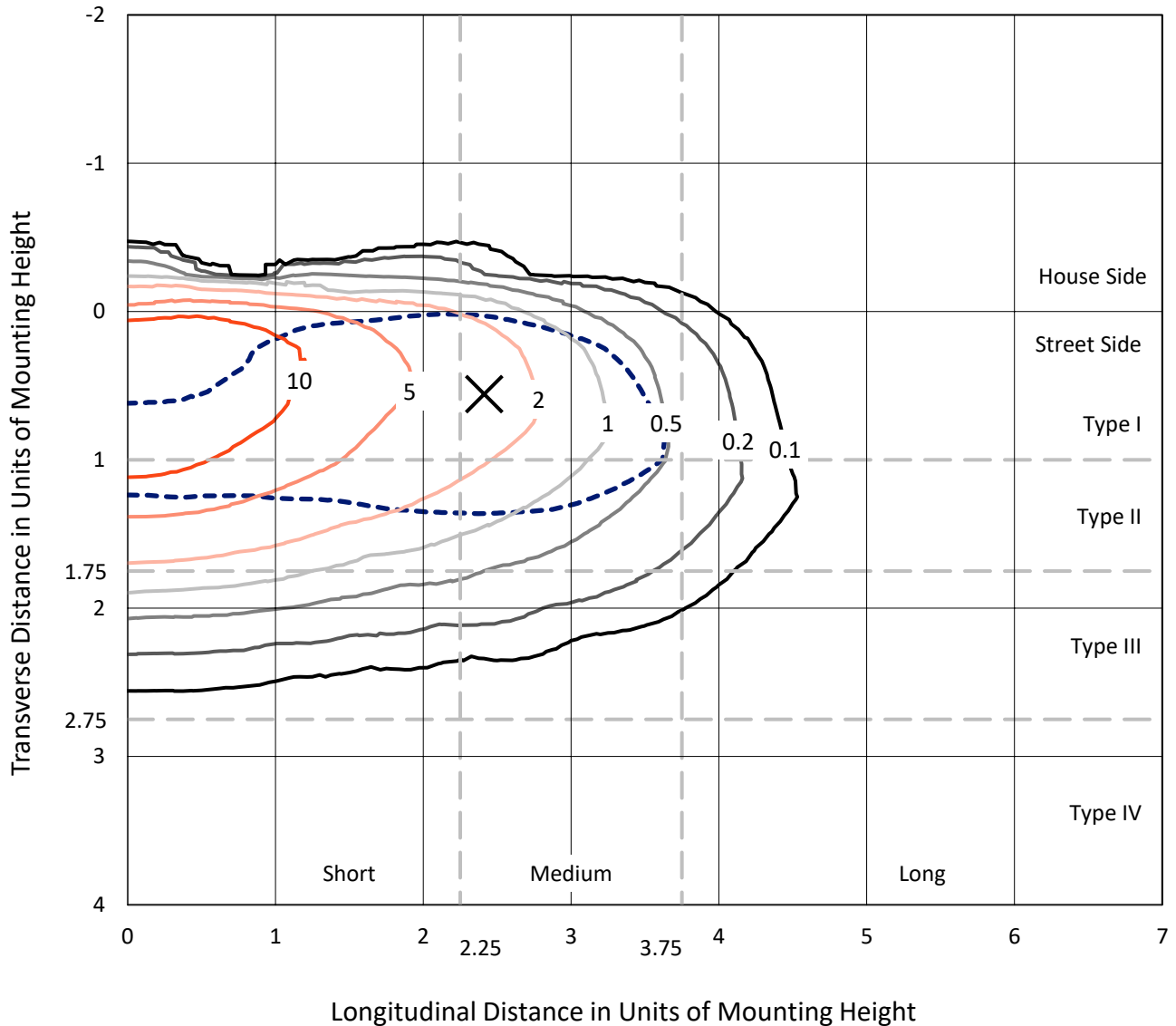
Lumens per Lamp: N/A  
Luminaire Lumens: 6598.8 lumens  
Efficiency: N/A  
Efficacy: 80.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B0 - U0 - G1

Input Watts (W): 82.4  
Input Voltage (V): 120  
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: 24 FT

REPORT NUMBER: P482169  
 CATALOG NUMBER: IFLD-S-SA2B-827-U-T2R-HSS

### Iso-Footcandle Lines of Horizontal Illumination

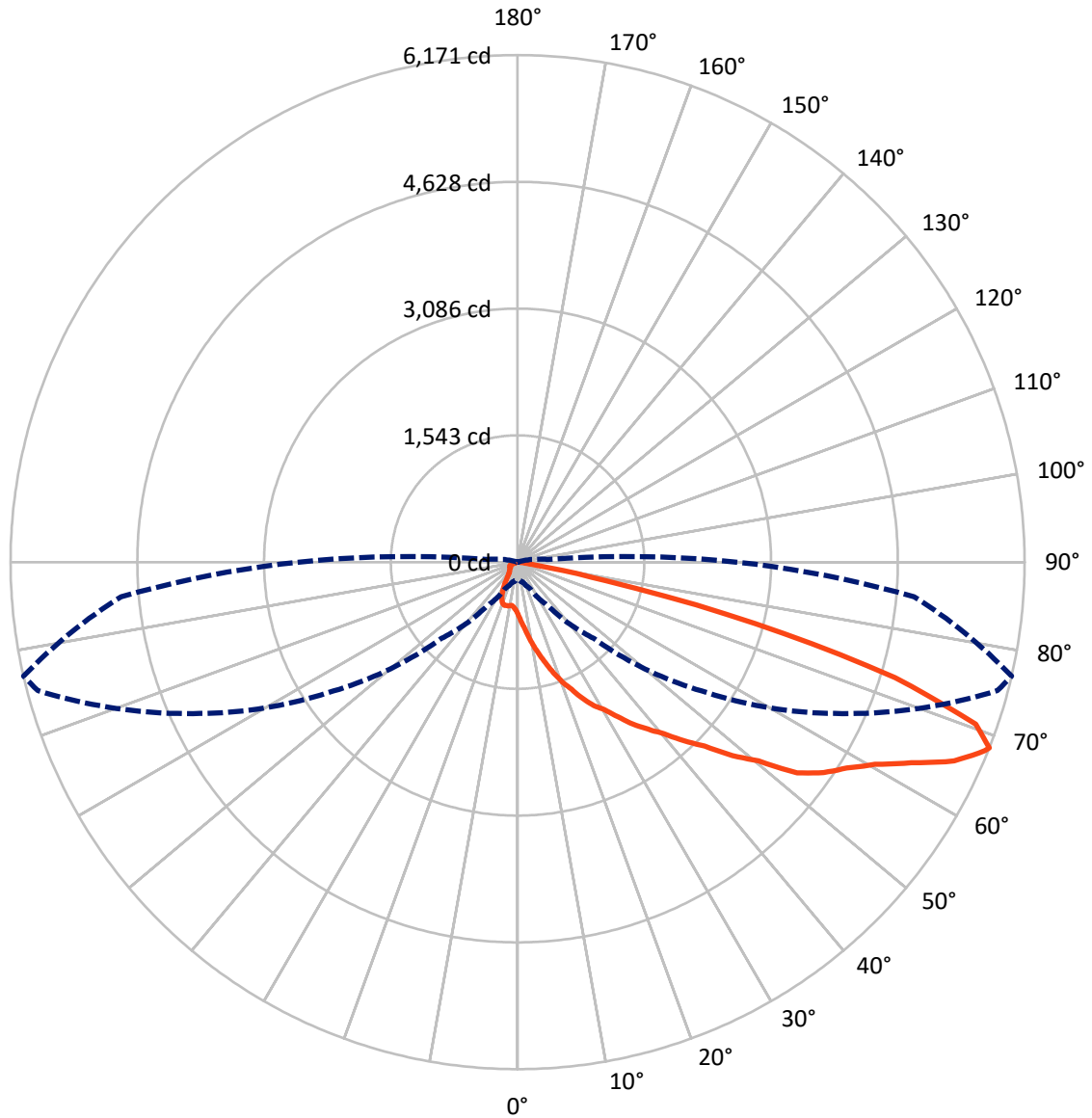
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.7 fc  
 Type II - Medium - N/A

REPORT NUMBER: P482169  
CATALOG NUMBER: IFLD-S-SA2B-827-U-T2R-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 77-Deg Lateral      - - - Horizontal Cone Through 68-Deg Vertical

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 CATALOG NUMBER: IFLD-S-SA2B-827-U-T2R-HSS

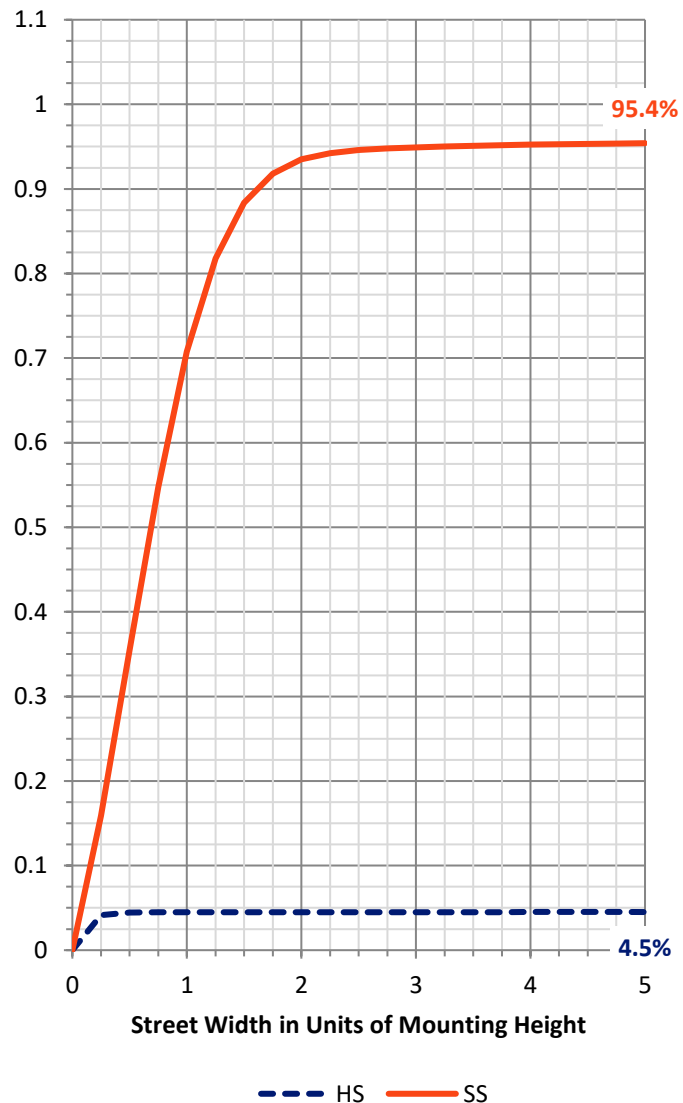
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	299.2	0.0	299.2
	% Fixture	4.5	0.0	4.5
<b>Street Side</b>	Lumens	6299.6	0.0	6299.6
	% Fixture	95.5	0.0	95.5
<b>Total</b>	Lumens	6598.8	0.0	6598.8
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	73.8	1.1
10°-20°	272.2	4.1
20°-30°	527.6	8.0
30°-40°	919.8	13.9
40°-50°	1347.1	20.4
50°-60°	1582.7	24.0
60°-70°	1336.4	20.3
70°-80°	518.0	7.9
80°-90°	21.1	0.3
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°	6598.8	100.0
0°-180°	6598.8	100.0

**Coefficient of Utilization**



REPORT NUMBER: P482169

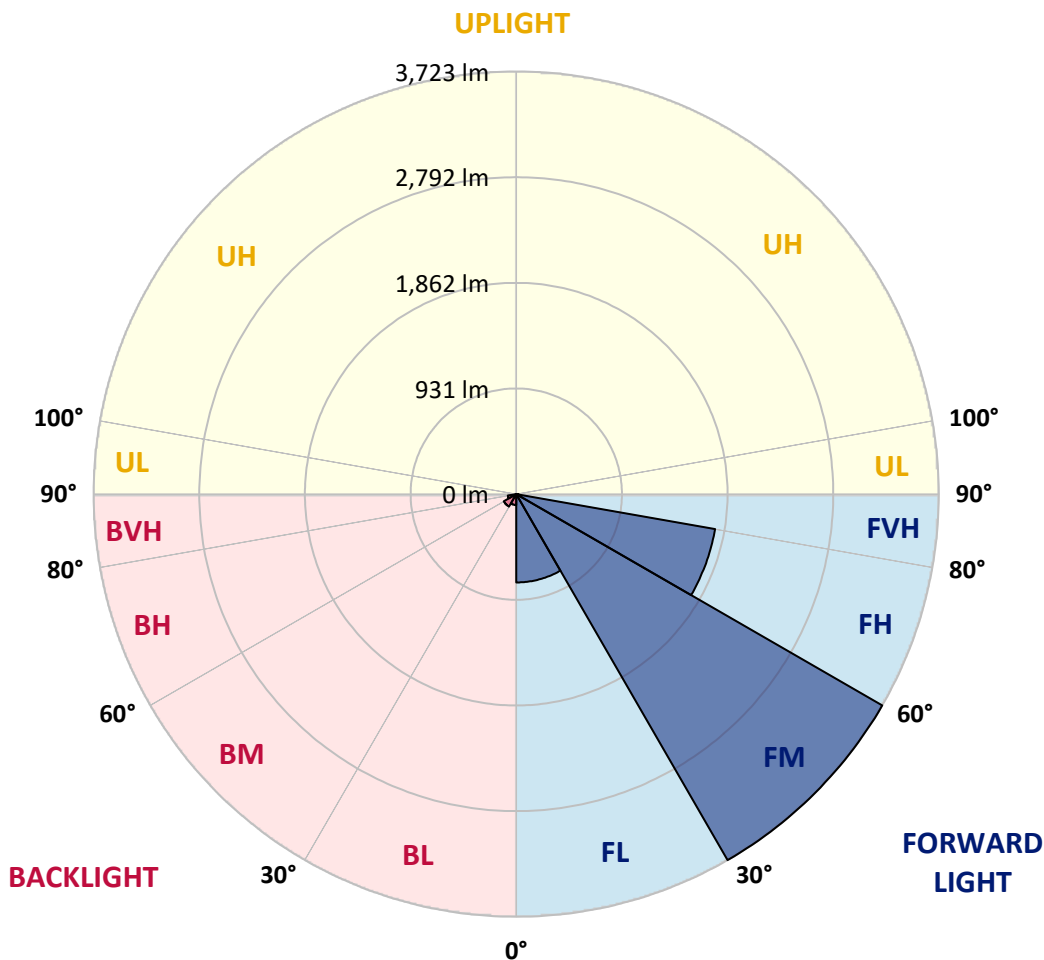
CATALOG NUMBER: IFLD-S-SA2B-827-U-T2R-HSS

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	778.1	11.8			
FM (30°-60°)	3723.2	56.4			
FH (60°-80°)	1778.9	27.0			G1/1800
FVH (80°-90°)	19.4	0.3			G1/100
BL (0°-30°)	95.6	1.4	B0/110		
BM (30°-60°)	126.4	1.9	B0/220		
BH (60°-80°)	75.6	1.1	B0/110		G0/110
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B0-U0-G1**

Type II Medium





REPORT NUMBER: P482169

CATALOG NUMBER: IFLD-S-SA2B-827-U-T2R-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	631.8	631.8	631.8	631.8	631.8	631.8	631.8	631.8	631.8	631.8	631.8
2.5°	960.0	941.9	922.8	917.3	881.9	841.9	804.6	768.2	707.3	708.2	666.4
5°	1237.3	1214.6	1199.1	1195.5	1140.0	1071.0	1014.6	911.9	810.9	788.2	711.8
7.5°	1465.5	1458.2	1435.5	1416.4	1375.5	1291.0	1224.6	1077.3	923.7	898.2	767.3
10°	1603.7	1614.6	1624.6	1600.1	1568.2	1507.3	1416.4	1257.3	1051.9	1020.0	839.1
12.5°	1751.0	1732.8	1739.2	1759.2	1717.3	1703.7	1591.0	1442.8	1201.9	1141.0	930.0
15°	1789.2	1796.4	1811.9	1870.1	1898.3	1859.2	1761.9	1592.8	1357.3	1272.8	1014.6
17.5°	1814.6	1811.0	1830.1	1917.4	1960.1	1997.4	1936.4	1760.1	1492.8	1417.3	1120.0
20°	1846.4	1826.4	1868.3	1923.7	2022.8	2101.0	2098.3	1928.3	1634.6	1554.6	1224.6
22.5°	1964.6	1949.2	1982.8	1988.3	2057.4	2166.5	2192.8	2065.5	1780.1	1681.9	1337.3
25°	2182.8	2211.0	2171.0	2136.5	2157.4	2229.2	2248.3	2187.4	1926.4	1836.4	1450.1
27.5°	2501.9	2498.3	2419.2	2374.6	2324.6	2315.6	2329.2	2301.0	2041.9	1977.4	1542.8
30°	2844.7	2814.7	2741.9	2634.7	2524.7	2456.5	2437.4	2408.3	2177.4	2083.7	1634.6
32.5°	3117.4	3133.8	3052.9	2912.9	2730.1	2638.3	2546.5	2514.7	2326.5	2243.7	1740.1
35°	3368.3	3346.5	3282.0	3163.8	3000.1	2851.9	2708.3	2640.1	2505.6	2423.7	1856.4
37.5°	3553.8	3581.1	3458.3	3345.6	3182.9	3060.1	2919.2	2770.1	2690.1	2581.0	1998.3
40°	3729.2	3686.5	3603.8	3500.1	3349.2	3255.6	3162.9	2930.1	2886.5	2745.6	2158.3
42.5°	3698.3	3701.1	3655.6	3572.0	3462.9	3409.2	3377.4	3124.7	3064.7	2974.7	2314.6
45°	3572.0	3582.9	3598.3	3557.4	3566.5	3512.9	3598.3	3348.3	3289.2	3193.8	2494.7
47.5°	3432.9	3451.1	3447.4	3522.0	3606.5	3624.7	3838.3	3596.5	3571.1	3518.3	2743.8
50°	3202.0	3209.2	3279.2	3414.7	3530.1	3720.2	4018.4	3867.4	3906.5	3802.9	3040.1
52.5°	2807.4	2833.8	3013.8	3207.4	3440.1	3768.3	4140.2	4270.2	4369.3	4262.9	3324.7
55°	2308.3	2344.6	2521.9	2884.7	3225.6	3695.6	4251.1	4482.9	4683.8	4522.9	3497.4
57.5°	1857.4	1861.0	2020.1	2394.6	2921.0	3552.9	4307.5	4586.6	4856.6	4727.5	3708.3
60°	1415.5	1401.0	1543.7	1868.3	2408.3	3202.0	4166.5	4639.3	5072.0	4997.5	3962.0
62.5°	910.9	888.2	1043.7	1360.1	1881.0	2617.4	3884.7	4640.2	5408.4	5380.2	4386.5
65°	450.9	435.5	569.1	833.7	1301.9	2001.9	3482.9	4622.9	5819.3	5837.5	4800.2
67.5°	238.2	243.6	286.4	422.7	750.9	1414.6	2877.4	4420.2	6029.3	6131.2	4900.2
68°	219.1	220.9	254.6	351.8	651.8	1311.9	2733.8	4361.1	6045.7	6171.2	4844.8
70°	178.2	180.9	192.7	220.9	352.7	853.7	2109.2	3859.3	5799.3	5913.9	4385.6
72.5°	141.8	150.0	157.3	169.1	207.3	448.2	1311.9	3007.4	4791.1	4803.8	3413.8
75°	108.2	114.6	129.1	139.1	161.8	246.4	624.6	1833.7	3143.8	2989.2	2011.0
77.5°	83.6	89.1	95.5	109.1	135.5	166.4	190.9	778.2	1335.5	1099.1	568.2
80°	50.0	53.6	74.5	85.5	118.2	112.7	75.5	216.4	270.9	213.6	103.6
82.5°	29.1	31.8	42.7	65.5	82.7	60.9	44.5	67.3	66.4	58.2	34.5
85°	0.9	1.8	23.6	39.1	29.1	16.4	27.3	28.2	23.6	21.8	15.5
87.5°	0.0	0.9	6.4	5.5	6.4	3.6	5.5	7.3	9.1	8.2	6.4
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: P482169

CATALOG NUMBER: IFLD-S-SA2B-827-U-T2R-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	631.8	631.8	631.8	631.8	631.8	631.8	631.8	631.8	631.8	631.8	631.8
2.5°	638.2	618.2	573.7	540.0	503.7	481.8	460.0	446.4	439.1	434.6	438.2
5°	654.6	612.8	540.9	477.3	435.5	407.3	379.1	364.6	350.9	343.7	348.2
7.5°	690.9	628.2	509.1	440.0	390.9	347.3	311.8	283.6	267.3	252.7	255.5
10°	735.5	637.3	510.0	418.2	347.3	278.2	228.2	192.7	172.7	160.0	159.1
12.5°	780.9	672.8	513.7	396.4	293.6	209.1	150.0	123.6	111.8	105.5	105.5
15°	850.0	704.6	504.6	356.4	222.7	136.4	102.7	93.6	89.1	83.6	84.5
17.5°	910.0	755.5	500.0	296.4	152.7	98.2	85.5	75.5	70.9	65.5	65.5
20°	991.0	787.3	475.5	229.1	105.5	81.8	69.1	60.0	52.7	48.2	49.1
22.5°	1064.6	811.9	431.8	156.4	80.9	64.5	50.9	41.8	35.5	30.0	30.9
25°	1144.6	836.4	368.2	96.4	57.3	40.0	27.3	20.0	13.6	10.0	10.0
27.5°	1201.9	843.7	285.5	57.3	34.5	18.2	6.4	0.9	0.0	0.0	0.0
30°	1260.1	846.4	197.3	30.9	13.6	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1326.4	845.5	123.6	16.4	0.9	0.0	0.0	0.0	0.0	0.0	0.0
35°	1377.3	830.0	59.1	1.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1454.6	807.3	18.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1542.8	766.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1621.9	724.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1711.9	672.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1870.1	650.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	2076.5	633.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	2203.7	582.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	2270.1	530.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2368.3	504.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2513.7	506.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	2741.0	531.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	2866.5	506.4	3.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2760.1	405.5	17.3	4.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0
68°	2668.3	372.7	17.3	4.5	0.9	0.0	0.0	0.0	0.0	0.0	0.0
70°	2205.5	242.7	16.4	4.5	1.8	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1606.4	134.6	13.6	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
75°	934.6	67.3	10.0	3.6	1.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	243.6	33.6	8.2	4.5	2.7	0.9	0.0	0.0	0.0	0.0	0.0
80°	48.2	21.8	7.3	5.5	3.6	1.8	0.0	0.0	0.0	0.0	0.0
82.5°	22.7	15.5	7.3	5.5	4.5	2.7	0.9	0.0	0.0	0.0	0.0
85°	11.8	7.3	7.3	5.5	5.5	3.6	1.8	0.0	0.0	0.0	0.0
87.5°	5.5	2.7	2.7	2.7	2.7	1.8	0.9	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)