

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: P482207

Luminaire Tested: **IFLD-S-SA2A-830-U-T2R-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P482207
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2A-830-U-T2R-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens with House Side Shield
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

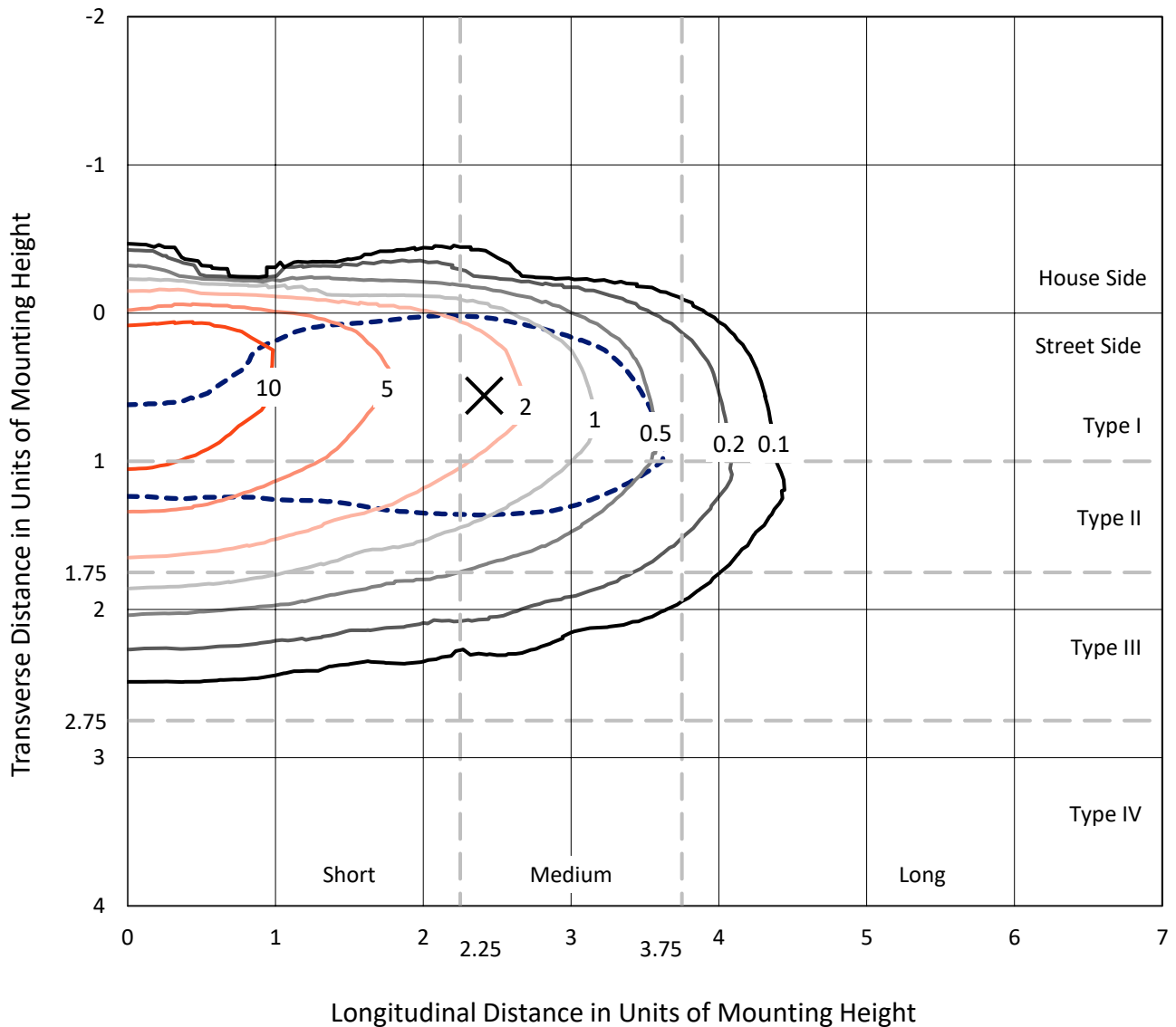
Lumens per Lamp: N/A
Luminaire Lumens: 5767.6 lumens
Efficiency: N/A
Efficacy: 90.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B0 - U0 - G1

Input Watts (W): 63.8
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: P482207
 CATALOG NUMBER: IFLD-S-SA2A-830-U-T2R-HSS

Iso-Footcandle Lines of Horizontal Illumination

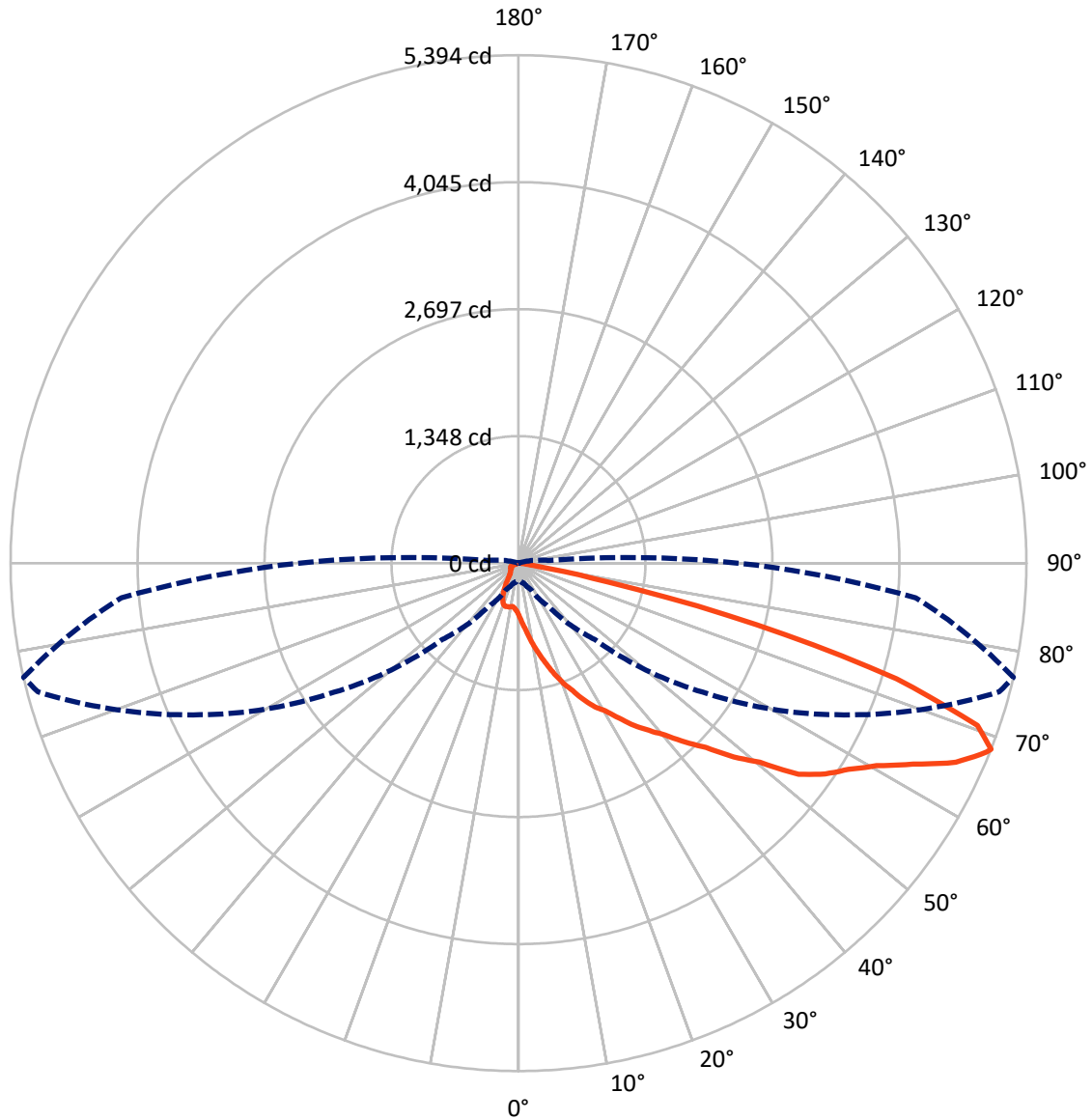
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.3 fc
 Type II - Medium - N/A

REPORT NUMBER: P482207
CATALOG NUMBER: IFLD-S-SA2A-830-U-T2R-HSS

Luminous Intensity Polar Plot



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

REPORT NUMBER: P482207
 CATALOG NUMBER: IFLD-S-SA2A-830-U-T2R-HSS

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	261.6	0.0	261.6
	% Fixture	4.5	0.0	4.5
Street Side	Lumens	5506.0	0.0	5506.0
	% Fixture	95.5	0.0	95.5
Total	Lumens	5767.6	0.0	5767.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	64.5	1.1
10°-20°	237.9	4.1
20°-30°	461.1	8.0
30°-40°	803.9	13.9
40°-50°	1177.4	20.4
50°-60°	1383.3	24.0
60°-70°	1168.1	20.3
70°-80°	452.8	7.9
80°-90°	18.4	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°	5767.6	100.0
0°-180°	5767.6	100.0

Coefficient of Utilization



REPORT NUMBER: P482207

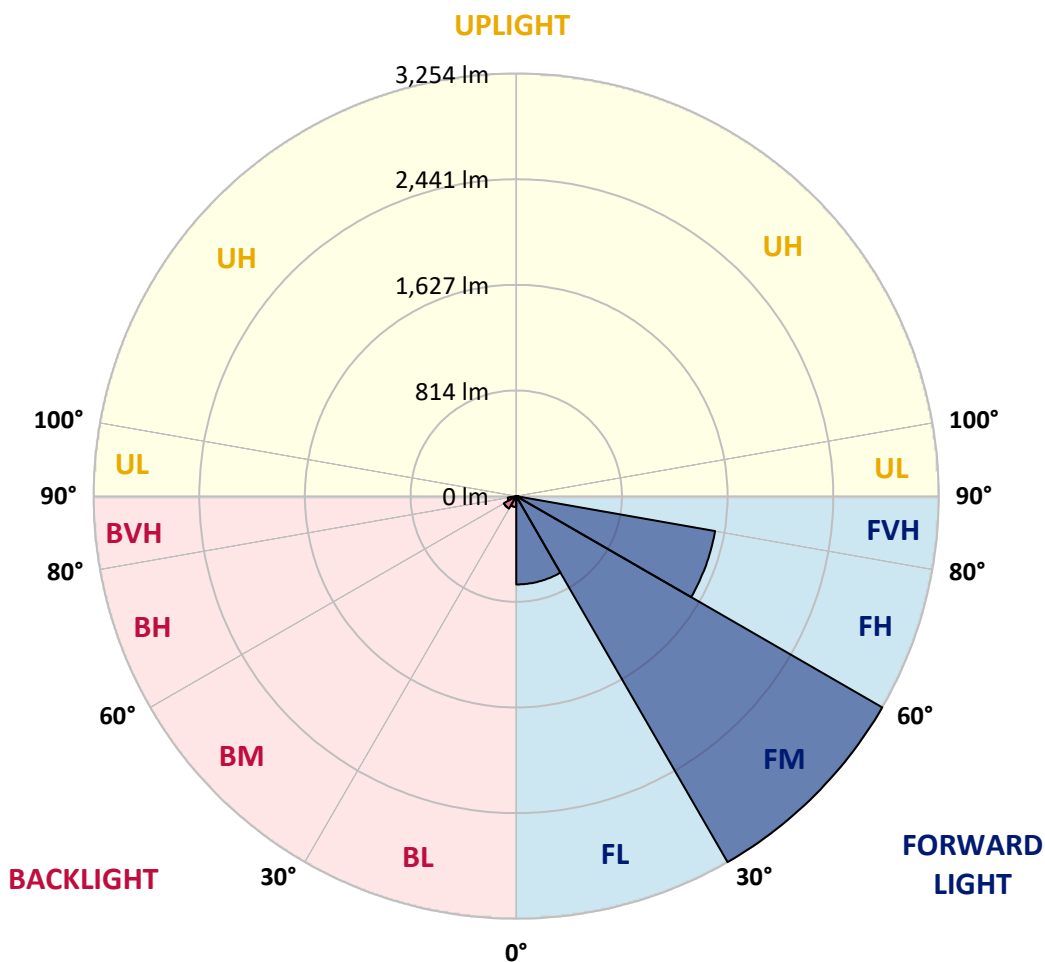
CATALOG NUMBER: IFLD-S-SA2A-830-U-T2R-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	680.0	11.8			
FM (30°-60°)	3254.2	56.4			
FH (60°-80°)	1554.8	27.0			G1/1800
FVH (80°-90°)	17.0	0.3			G1/100
BL (0°-30°)	83.6	1.4	B0/110		
BM (30°-60°)	110.5	1.9	B0/220		
BH (60°-80°)	66.0	1.1	B0/110		G0/110
BVH (80°-90°)	1.4	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: P482207

CATALOG NUMBER: IFLD-S-SA2A-830-U-T2R-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	77°	85°
0°	552.3	552.3	552.3	552.3	552.3	552.3	552.3	552.3	552.3	552.3	552.3
2.5°	839.1	823.2	806.5	801.8	770.8	735.8	703.2	671.4	618.2	619.0	582.4
5°	1081.5	1061.6	1048.1	1044.9	996.4	936.0	886.8	797.0	708.8	688.9	622.2
7.5°	1280.9	1274.6	1254.7	1238.0	1202.2	1128.3	1070.3	941.6	807.3	785.1	670.6
10°	1401.7	1411.2	1420.0	1398.5	1370.7	1317.5	1238.0	1098.9	919.4	891.5	733.4
12.5°	1530.4	1514.5	1520.1	1537.6	1501.0	1489.1	1390.6	1261.0	1050.5	997.2	812.9
15°	1563.8	1570.1	1583.7	1634.5	1659.1	1625.0	1539.9	1392.2	1186.3	1112.5	886.8
17.5°	1586.0	1582.9	1599.5	1675.8	1713.2	1745.8	1692.5	1538.4	1304.7	1238.8	979.0
20°	1613.8	1596.4	1632.9	1681.4	1768.0	1836.3	1834.0	1685.4	1428.7	1358.8	1070.3
22.5°	1717.1	1703.6	1733.0	1737.8	1798.2	1893.5	1916.6	1805.3	1555.8	1470.0	1168.9
25°	1907.9	1932.5	1897.5	1867.3	1885.6	1948.4	1965.1	1911.8	1683.8	1605.1	1267.4
27.5°	2186.8	2183.6	2114.5	2075.5	2031.8	2023.9	2035.8	2011.2	1784.7	1728.3	1348.4
30°	2486.3	2460.1	2396.5	2302.8	2206.6	2147.0	2130.3	2104.9	1903.1	1821.2	1428.7
32.5°	2724.7	2739.0	2668.3	2545.9	2386.2	2306.0	2225.7	2197.9	2033.4	1961.1	1520.9
35°	2944.0	2925.0	2868.5	2765.2	2622.2	2492.7	2367.1	2307.5	2189.9	2118.4	1622.6
37.5°	3106.1	3130.0	3022.7	2924.2	2781.9	2674.6	2551.5	2421.2	2351.2	2255.9	1746.5
40°	3259.5	3222.1	3149.8	3059.2	2927.3	2845.5	2764.4	2561.0	2522.9	2399.7	1886.4
42.5°	3232.5	3234.8	3195.1	3122.0	3026.7	2979.8	2952.0	2731.1	2678.6	2600.0	2023.1
45°	3122.0	3131.5	3145.1	3109.3	3117.2	3070.4	3145.1	2926.5	2874.9	2791.5	2180.4
47.5°	3000.4	3016.3	3013.2	3078.3	3152.2	3168.1	3354.8	3143.5	3121.2	3075.1	2398.1
50°	2798.6	2805.0	2866.1	2984.5	3085.5	3251.5	3512.2	3380.3	3414.4	3323.8	2657.2
52.5°	2453.7	2476.8	2634.1	2803.4	3006.8	3293.6	3618.6	3732.3	3818.9	3725.9	2905.9
55°	2017.5	2049.3	2204.2	2521.3	2819.3	3230.1	3715.6	3918.2	4093.8	3953.2	3056.9
57.5°	1623.4	1626.6	1765.6	2093.0	2553.1	3105.3	3764.9	4008.8	4244.8	4132.0	3241.2
60°	1237.2	1224.5	1349.2	1632.9	2104.9	2798.6	3641.7	4054.9	4433.1	4368.0	3462.9
62.5°	796.2	776.3	912.2	1188.7	1644.0	2287.7	3395.4	4055.7	4727.1	4702.5	3834.0
65°	394.1	380.6	497.4	728.7	1137.9	1749.7	3044.1	4040.6	5086.3	5102.2	4195.5
67.5°	208.2	213.0	250.3	369.5	656.3	1236.4	2514.9	3863.4	5269.8	5358.8	4282.9
68°	191.5	193.1	222.5	307.5	569.7	1146.6	2389.4	3811.7	5284.1	5393.8	4234.5
70°	155.7	158.1	168.5	193.1	308.3	746.1	1843.5	3373.1	5068.8	5168.9	3833.2
72.5°	124.0	131.1	137.5	147.8	181.2	391.7	1146.6	2628.6	4187.6	4198.7	2983.8
75°	94.6	100.1	112.8	121.6	141.4	215.3	545.9	1602.7	2747.8	2612.7	1757.7
77.5°	73.1	77.9	83.4	95.4	118.4	145.4	166.9	680.2	1167.3	960.7	496.6
80°	43.7	46.9	65.2	74.7	103.3	98.5	66.0	189.1	236.8	186.7	90.6
82.5°	25.4	27.8	37.3	57.2	72.3	53.2	38.9	58.8	58.0	50.9	30.2
85°	0.8	1.6	20.7	34.2	25.4	14.3	23.8	24.6	20.7	19.1	13.5
87.5°	0.0	0.8	5.6	4.8	5.6	3.2	4.8	6.4	7.9	7.2	5.6
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: P482207
 CATALOG NUMBER: IFLD-S-SA2A-830-U-T2R-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	552.3	552.3	552.3	552.3	552.3	552.3	552.3	552.3	552.3	552.3	552.3
2.5°	557.8	540.3	501.4	472.0	440.2	421.1	402.1	390.2	383.8	379.8	383.0
5°	572.1	535.6	472.8	417.2	380.6	356.0	331.4	318.6	306.7	300.4	304.3
7.5°	603.9	549.1	445.0	384.6	341.7	303.5	272.6	247.9	233.6	220.9	223.3
10°	642.8	557.0	445.8	365.5	303.5	243.1	199.4	168.5	151.0	139.9	139.1
12.5°	682.6	588.0	449.0	346.4	256.7	182.8	131.1	108.1	97.7	92.2	92.2
15°	743.0	615.8	441.0	311.5	194.7	119.2	89.8	81.8	77.9	73.1	73.9
17.5°	795.4	660.3	437.0	259.0	133.5	85.8	74.7	66.0	62.0	57.2	57.2
20°	866.1	688.1	415.6	200.2	92.2	71.5	60.4	52.4	46.1	42.1	42.9
22.5°	930.5	709.6	377.4	136.7	70.7	56.4	44.5	36.6	31.0	26.2	27.0
25°	1000.4	731.0	321.8	84.2	50.1	35.0	23.8	17.5	11.9	8.7	8.7
27.5°	1050.5	737.4	249.5	50.1	30.2	15.9	5.6	0.8	0.0	0.0	0.0
30°	1101.3	739.8	172.4	27.0	11.9	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	1159.3	739.0	108.1	14.3	0.8	0.0	0.0	0.0	0.0	0.0	0.0
35°	1203.8	725.5	51.6	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	1271.4	705.6	15.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	1348.4	669.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	1417.6	633.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	1496.2	588.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	1634.5	568.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	1814.9	553.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	1926.1	509.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	1984.1	463.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	2070.0	441.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2197.1	442.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	2395.7	464.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	2505.4	442.6	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	2412.4	354.4	15.1	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
68°	2332.2	325.8	15.1	4.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0
70°	1927.7	212.2	14.3	4.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	1404.1	117.6	11.9	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	816.9	58.8	8.7	3.2	1.6	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	213.0	29.4	7.2	4.0	2.4	0.8	0.0	0.0	0.0	0.0	0.0
80°	42.1	19.1	6.4	4.8	3.2	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	19.9	13.5	6.4	4.8	4.0	2.4	0.8	0.0	0.0	0.0	0.0
85°	10.3	6.4	6.4	4.8	4.8	3.2	1.6	0.0	0.0	0.0	0.0
87.5°	4.8	2.4	2.4	2.4	2.4	1.6	0.8	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)