

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: P481550

Luminaire Tested: **IFLD-S-SA3B-727-U-T2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481550
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3B-727-U-T2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2 distribution lens with House Side Shield
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

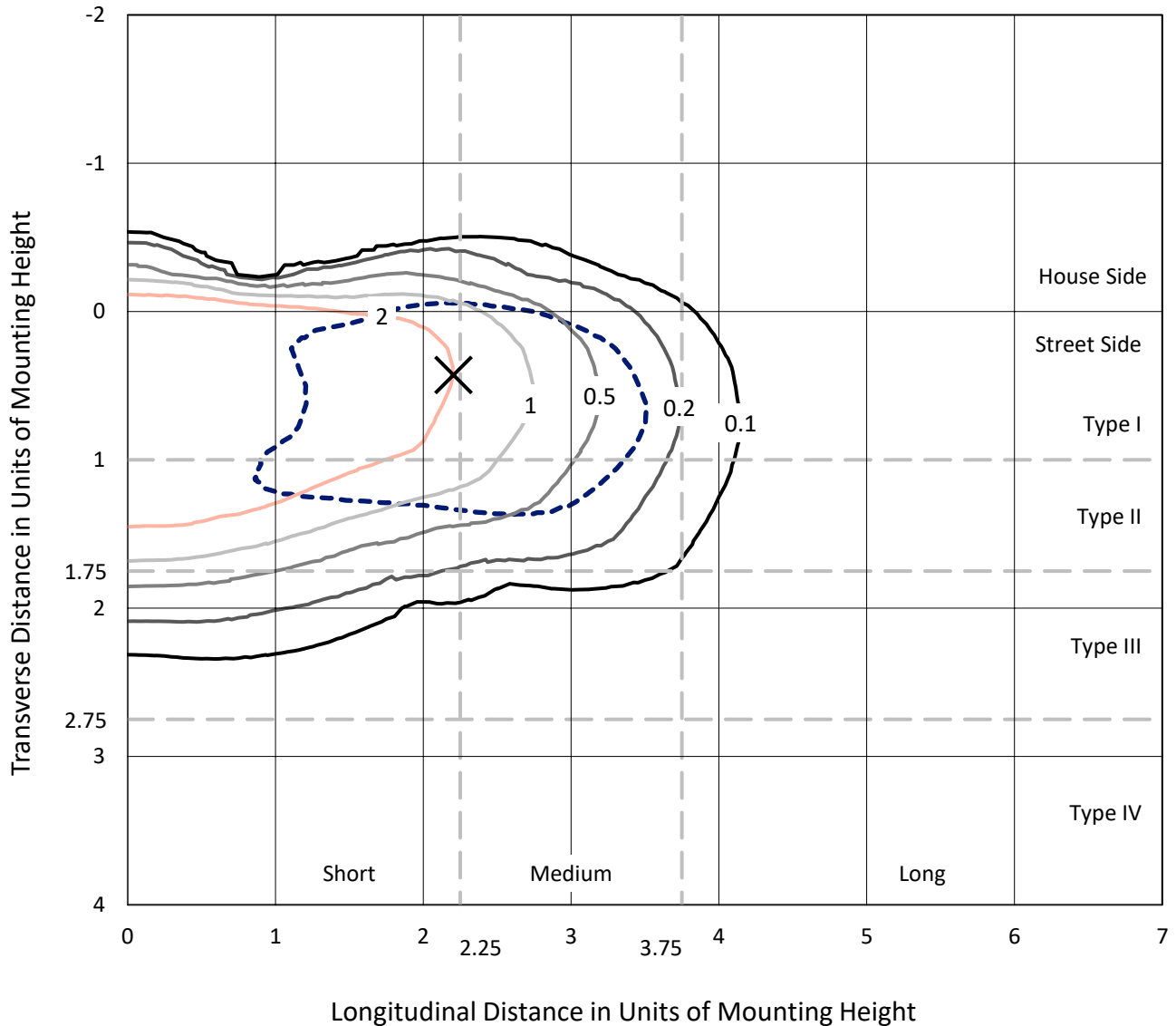
Lumens per Lamp: N/A
Luminaire Lumens: 10247.8 lumens
Efficiency: N/A
Efficacy: 83.7 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 122.4
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: P481550
 CATALOG NUMBER: IFLD-S-SA3B-727-U-T2-HSS

Iso-Footcandle Lines of Horizontal Illumination

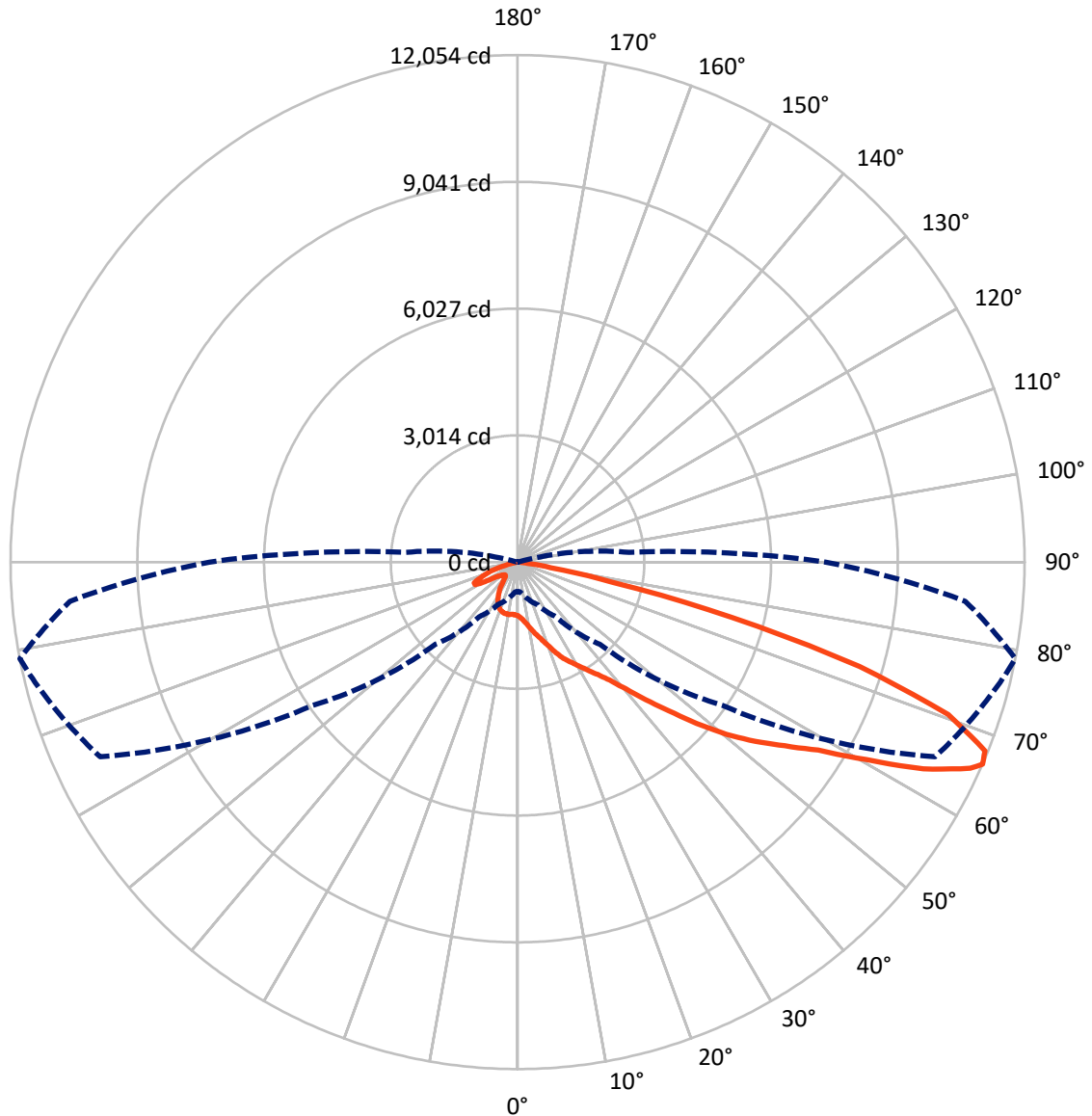
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 fc
 Type II - Short - N/A

REPORT NUMBER: P481550
CATALOG NUMBER: IFLD-S-SA3B-727-U-T2-HSS

Luminous Intensity Polar Plot



— Vertical Plane Through 79-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	769.5	0.0	769.5
	% Fixture	7.5	0.0	7.5
Street Side	Lumens	9478.4	0.0	9478.4
	% Fixture	92.5	0.0	92.5
Total	Lumens	10247.8	0.0	10247.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.6	1.2
10°-20°	331.8	3.2
20°-30°	551.3	5.4
30°-40°	946.9	9.2
40°-50°	1715.4	16.7
50°-60°	2711.5	26.5
60°-70°	2759.2	26.9
70°-80°	1052.2	10.3
80°-90°	59.0	0.6
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°	10247.8	100.0
0°-180°	10247.8	100.0

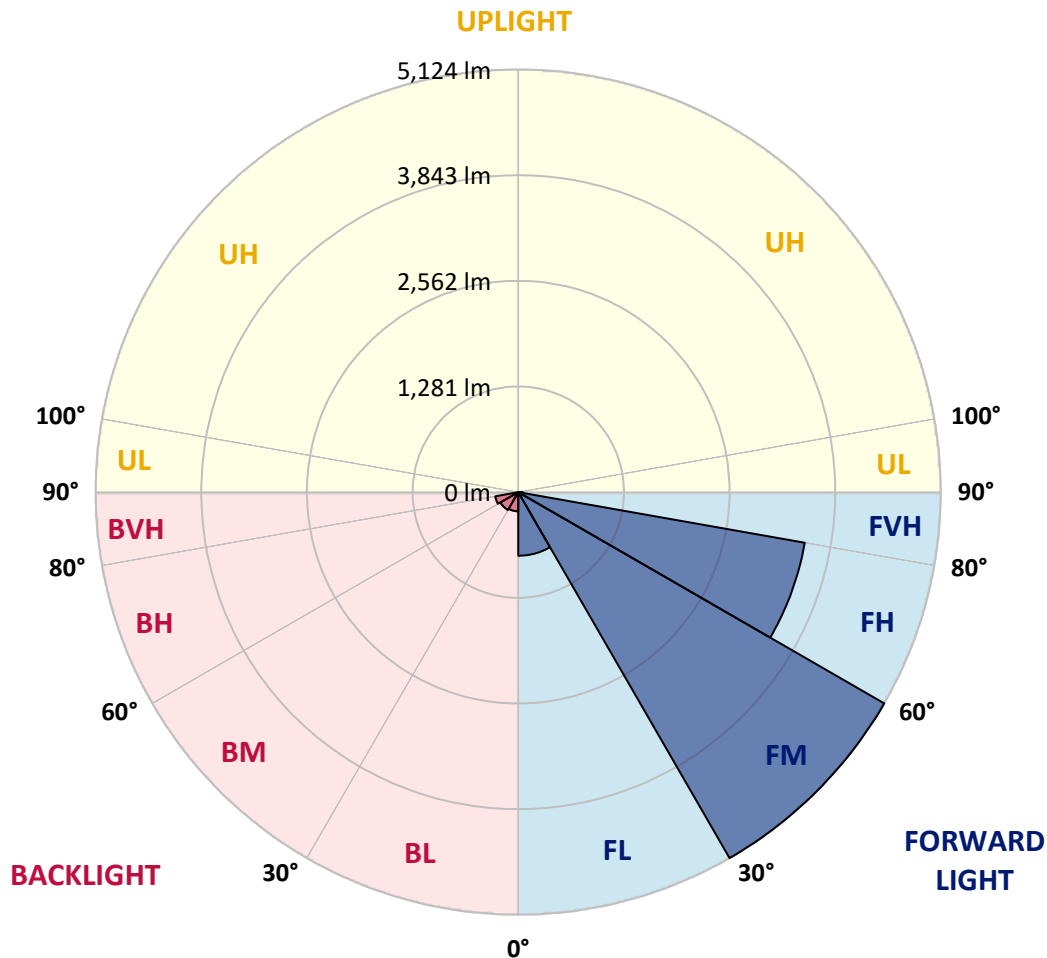


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	771.0	7.5			
FM (30°-60°)	5123.7	50.0			
FH (60°-80°)	3527.7	34.4			G2/5000
FVH (80°-90°)	56.0	0.5			G1/100
BL (0°-30°)	232.7	2.3	B1/500		
BM (30°-60°)	250.1	2.4	B1/1000		
BH (60°-80°)	283.7	2.8	B1/500		G1/500
BVH (80°-90°)	3.0	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-G2
 Type II Short





REPORT NUMBER: P481550

CATALOG NUMBER: IFLD-S-SA3B-727-U-T2-HSS

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	79°	85°
0°	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0
2.5°	1444.0	1442.4	1436.1	1425.0	1410.8	1406.1	1385.5	1357.1	1341.3	1323.9	1316.0
5°	1543.5	1535.6	1554.6	1546.7	1549.9	1511.9	1486.7	1466.1	1406.1	1382.4	1344.5
7.5°	1565.6	1573.5	1572.0	1584.6	1597.2	1611.5	1594.1	1564.1	1504.0	1469.3	1428.2
10°	1565.6	1562.5	1575.1	1592.5	1628.8	1660.4	1707.8	1668.3	1622.5	1581.4	1507.2
12.5°	1537.2	1532.5	1545.1	1581.4	1646.2	1711.0	1763.1	1801.0	1736.3	1703.1	1606.7
15°	1450.3	1445.6	1497.7	1562.5	1647.8	1753.7	1862.7	1924.3	1880.0	1827.9	1720.5
17.5°	1342.9	1349.2	1404.5	1511.9	1647.8	1774.2	1913.2	2047.5	2041.2	1974.8	1862.7
20°	1306.6	1311.3	1366.6	1444.0	1598.8	1788.4	1992.2	2181.8	2219.7	2140.7	1993.8
22.5°	1376.1	1371.3	1376.1	1423.5	1565.6	1775.8	2044.3	2335.0	2403.0	2341.4	2166.0
25°	1613.0	1609.9	1570.4	1497.7	1546.7	1747.3	2071.2	2436.2	2592.6	2535.7	2305.0
27.5°	1960.6	1948.0	1886.4	1734.7	1635.2	1764.7	2115.4	2534.1	2758.4	2693.7	2429.8
30°	2333.5	2303.4	2222.9	2033.3	1864.2	1829.5	2140.7	2606.8	2943.3	2861.1	2538.8
32.5°	2591.0	2630.5	2605.2	2412.5	2153.4	1979.6	2181.8	2698.4	3113.9	3060.2	2725.3
35°	2989.1	3034.9	2929.1	2758.4	2497.8	2218.1	2268.7	2772.7	3376.2	3286.1	2899.1
37.5°	3491.5	3526.3	3450.4	3126.6	2851.7	2512.0	2447.2	2927.5	3602.1	3559.4	3121.8
40°	3744.3	3911.8	3804.3	3512.0	3216.6	2922.8	2742.7	3109.2	3995.5	3960.7	3429.9
42.5°	4093.4	4177.2	4121.9	3905.4	3597.4	3362.0	3107.6	3463.1	4472.6	4472.6	3847.0
45°	4463.1	4466.3	4463.1	4286.2	4012.9	3891.2	3600.5	3907.0	4986.1	5042.9	4346.2
47.5°	4766.5	4861.3	4853.4	4747.5	4535.8	4490.0	4093.4	4412.6	5630.6	5730.2	4832.8
50°	4922.9	5028.7	5060.3	5115.6	5106.1	5202.5	4632.2	4998.7	6186.8	6431.6	5458.4
52.5°	4880.2	4888.1	5082.4	5300.5	5648.0	5918.2	5281.5	5663.8	6837.7	7079.4	5941.9
55°	4531.1	4501.0	4900.7	5150.4	5869.2	6355.8	6180.4	6493.3	7344.8	7712.9	6441.1
57.5°	3764.8	3772.7	4142.4	4649.6	5704.9	6529.6	7141.0	7577.0	8055.7	8427.0	7142.6
60°	2598.9	2589.4	3003.3	3589.5	4739.6	6205.7	7694.0	8981.5	9006.8	9532.9	8401.7
62.5°	1461.4	1464.5	1778.9	2279.7	3316.1	5071.4	7667.1	10472.9	10365.5	10826.8	9833.1
65°	827.9	848.4	1064.8	1350.8	1985.9	3404.6	6594.4	11067.0	11413.0	11823.7	10702.0
66°	699.9	714.1	898.9	1115.4	1584.6	2761.6	5935.6	10951.6	11741.6	12054.4	10684.6
67.5°	541.9	560.9	715.7	884.7	1162.8	1911.6	4777.5	10378.2	11801.6	11984.9	10382.9
70°	371.3	383.9	502.4	671.4	794.7	977.9	2856.4	8580.3	10708.3	10863.2	9024.2
72.5°	260.7	267.0	352.3	508.7	611.4	559.3	1417.1	6104.6	8194.8	8496.5	7019.4
75°	188.0	194.3	241.7	364.9	477.1	366.5	649.3	3899.1	5025.6	5262.5	4227.7
77.5°	135.9	143.8	164.3	235.4	346.0	257.5	319.1	2036.4	2369.8	2328.7	1818.4
80°	82.2	90.1	121.6	151.7	252.8	181.7	175.4	850.0	840.5	797.8	571.9
82.5°	37.9	44.2	64.8	102.7	176.9	126.4	83.7	303.3	265.4	243.3	161.1
85°	11.1	14.2	37.9	77.4	90.1	61.6	50.6	104.3	109.0	93.2	53.7
87.5°	0.0	1.6	17.4	19.0	26.9	20.5	19.0	26.9	50.6	41.1	17.4
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: P481550

CATALOG NUMBER: IFLD-S-SA3B-727-U-T2-HSS

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0	1275.0
2.5°	1287.6	1276.5	1249.7	1208.6	1172.3	1153.3	1126.4	1102.7	1090.1	1088.5	1086.9
5°	1319.2	1289.2	1224.4	1150.1	1094.8	1034.8	993.7	963.7	935.3	908.4	924.2
7.5°	1361.8	1314.4	1208.6	1112.2	992.2	914.7	842.1	799.4	774.1	750.4	747.3
10°	1428.2	1368.2	1197.5	1023.8	886.3	772.6	698.3	636.7	601.9	560.9	576.7
12.5°	1518.3	1410.8	1156.5	943.2	766.2	646.2	540.3	440.8	385.5	342.8	344.4
15°	1608.3	1467.7	1118.5	845.2	657.2	499.2	344.4	276.5	260.7	251.2	254.4
17.5°	1696.8	1513.5	1060.1	745.7	532.4	317.6	251.2	237.0	229.1	219.6	219.6
20°	1804.2	1543.5	987.4	654.1	366.5	235.4	214.9	205.4	192.7	180.1	181.7
22.5°	1908.5	1568.8	903.7	537.2	246.5	203.8	180.1	167.5	156.4	143.8	143.8
25°	2012.8	1576.7	794.7	385.5	199.1	162.7	140.6	123.2	112.2	101.1	102.7
27.5°	2083.8	1527.7	692.0	246.5	159.6	123.2	98.0	83.7	74.3	63.2	63.2
30°	2124.9	1437.7	581.4	173.8	120.1	83.7	58.5	44.2	34.8	26.9	25.3
32.5°	2166.0	1365.0	456.6	132.7	79.0	44.2	22.1	7.9	0.0	0.0	0.0
35°	2248.2	1282.9	306.5	74.3	26.9	1.6	0.0	0.0	0.0	0.0	0.0
37.5°	2300.3	1169.1	140.6	11.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	2431.4	1112.2	34.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	2644.7	1072.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	2878.5	1056.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	3189.8	1099.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	3518.4	1214.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	3878.6	1323.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	4193.0	1455.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	4771.2	1764.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	5809.2	2373.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	6978.3	2824.8	17.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	7406.4	2813.7	30.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
66°	7330.6	2658.9	30.0	1.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	6937.2	2361.9	26.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	5957.7	1951.1	26.9	4.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	4542.1	1519.8	25.3	6.3	1.6	0.0	0.0	0.0	0.0	0.0	0.0
75°	2741.1	808.9	20.5	7.9	3.2	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	1091.7	284.4	15.8	6.3	3.2	0.0	0.0	0.0	0.0	0.0	0.0
80°	295.4	85.3	9.5	6.3	4.7	1.6	0.0	0.0	0.0	0.0	0.0
82.5°	77.4	31.6	7.9	6.3	3.2	1.6	0.0	0.0	0.0	0.0	0.0
85°	30.0	12.6	6.3	4.7	4.7	3.2	1.6	0.0	0.0	0.0	0.0
87.5°	9.5	4.7	4.7	3.2	3.2	1.6	1.6	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)