

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: P483885

Luminaire Tested: **IFLD-S-SA2B-727-U-SL2-HSS**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P483885
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-727-U-SL2-HSS
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens with House Side Shield
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

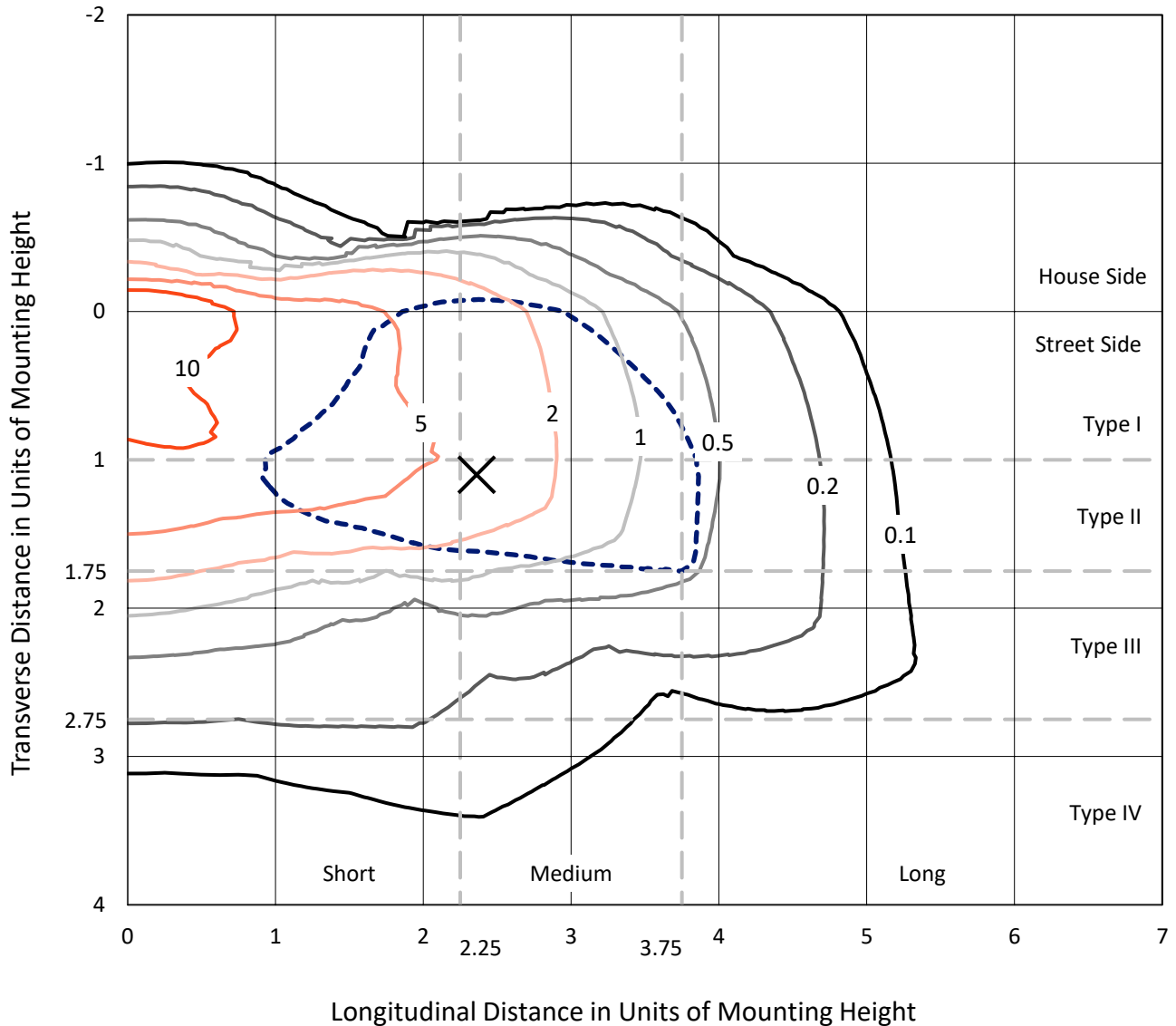
Lumens per Lamp: N/A
Luminaire Lumens: 7859.1 lumens
Efficiency: N/A
Efficacy: 95.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B1 - U0 - G2

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

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Iso-Footcandle Lines of Horizontal Illumination

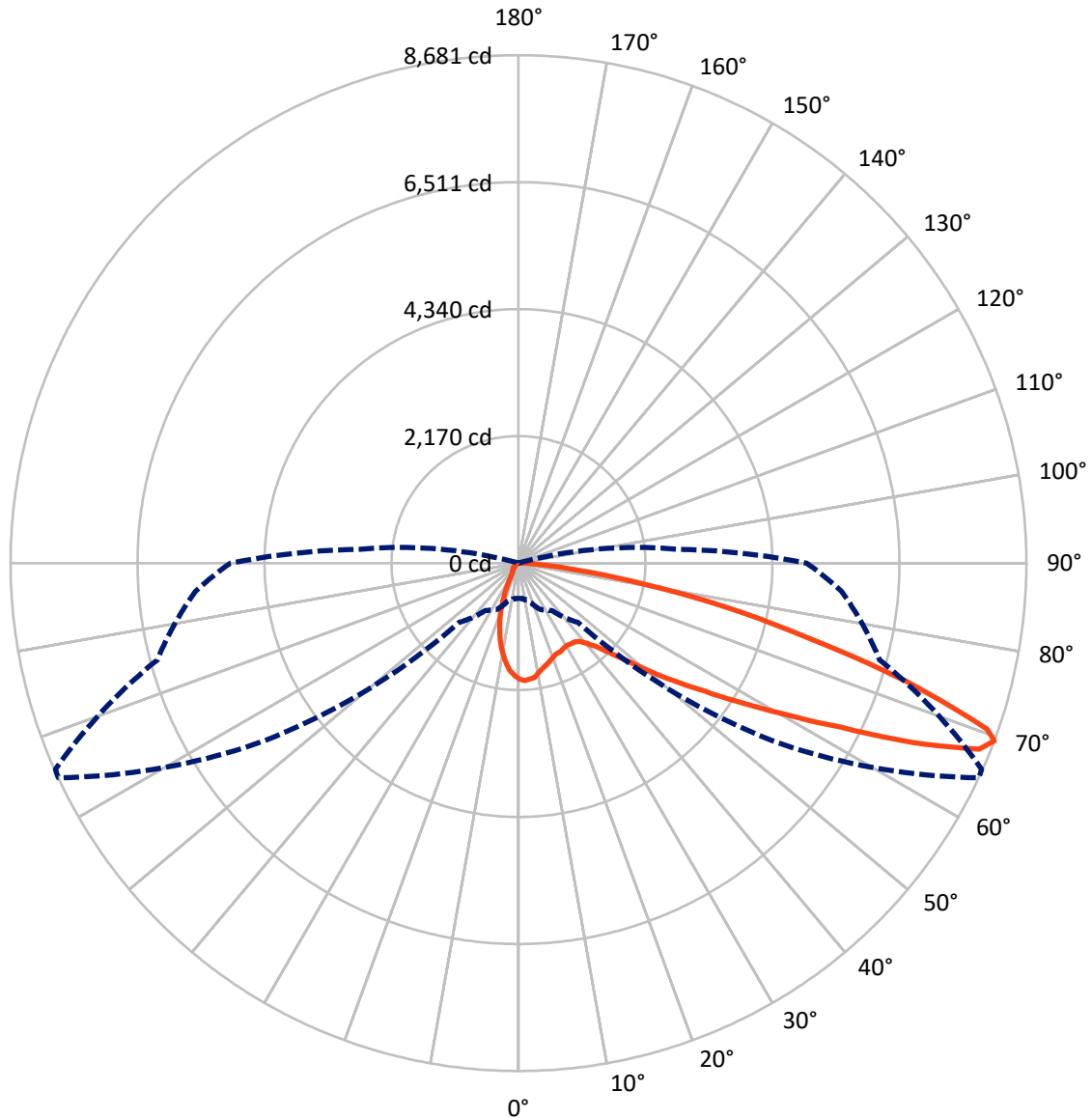
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 19.8 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	953.4	0.0	953.4
	% Fixture	12.1	0.0	12.1
Street Side	Lumens	6905.7	0.0	6905.7
	% Fixture	87.9	0.0	87.9
Total	Lumens	7859.1	0.0	7859.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	162.1	2.1
10°-20°	354.8	4.5
20°-30°	493.9	6.3
30°-40°	699.9	8.9
40°-50°	1103.1	14.0
50°-60°	1789.9	22.8
60°-70°	1999.0	25.4
70°-80°	1125.7	14.3
80°-90°	130.6	1.7
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°	7859.1	100.0
0°-180°	7859.1	100.0

Coefficient of Utilization



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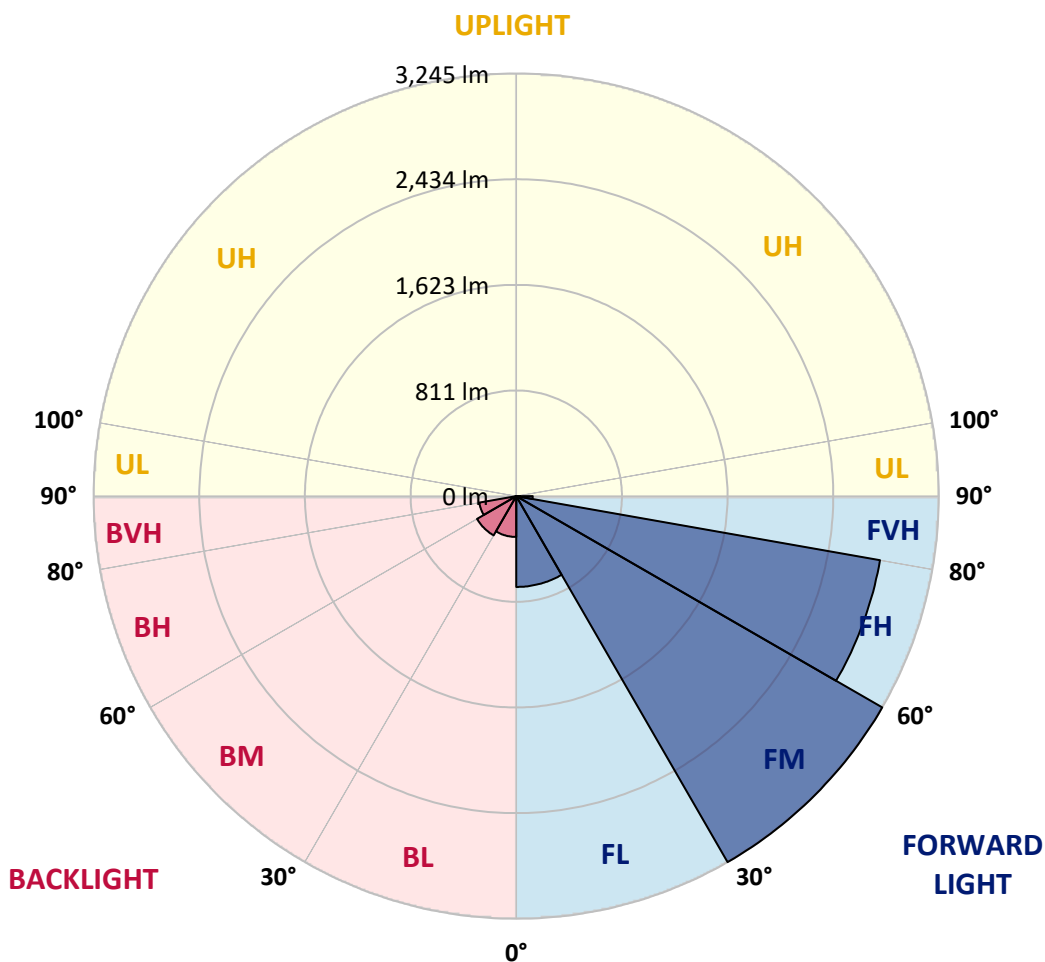
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	697.4	8.9			
FM (30°-60°)	3245.1	41.3			
FH (60°-80°)	2836.2	36.1			G2/5000
FVH (80°-90°)	127.0	1.6			G2/225
BL (0°-30°)	313.4	4.0	B1/500		
BM (30°-60°)	347.9	4.4	B1/1000		
BH (60°-80°)	288.4	3.7	B1/500		G1/500
BVH (80°-90°)	3.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	75°	85°
0°	1981.5	1981.5	1981.5	1981.5	1981.5	1981.5	1981.5	1981.5	1981.5	1981.5	1981.5
2.5°	1908.3	1923.1	1927.4	1942.2	1949.6	1981.5	1999.5	2010.1	2004.8	2016.4	2017.5
5°	1772.6	1764.1	1786.4	1802.3	1836.2	1891.3	1947.5	1991.0	2011.1	2030.2	2027.0
7.5°	1627.4	1623.1	1645.4	1681.4	1712.2	1779.0	1869.1	1976.2	1971.9	2018.6	2032.3
10°	1527.7	1531.9	1539.4	1575.4	1621.0	1688.8	1801.2	1900.9	1923.1	2021.7	2049.3
12.5°	1436.5	1443.9	1457.7	1494.8	1547.8	1617.8	1727.0	1843.6	1877.6	2003.7	2058.8
15°	1406.8	1389.9	1417.4	1445.0	1500.1	1562.7	1654.9	1800.2	1815.0	1982.5	2074.7
17.5°	1382.5	1371.9	1384.6	1406.8	1465.2	1516.0	1603.0	1753.5	1781.1	1974.0	2072.6
20°	1389.9	1380.3	1385.6	1402.6	1429.1	1476.8	1557.4	1709.0	1738.7	1934.8	2069.4
22.5°	1411.1	1418.5	1409.0	1413.2	1421.7	1446.1	1533.0	1677.2	1702.6	1927.4	2087.5
25°	1506.5	1493.8	1481.1	1475.8	1425.9	1436.5	1525.6	1675.1	1693.1	1900.9	2072.6
27.5°	1606.2	1595.6	1590.3	1559.5	1491.7	1459.9	1526.6	1645.4	1669.8	1890.3	2054.6
30°	1727.0	1740.8	1719.6	1682.5	1588.1	1509.7	1538.3	1630.5	1664.5	1850.0	2042.9
32.5°	1854.2	1861.7	1872.3	1844.7	1722.8	1585.0	1573.3	1644.3	1646.4	1850.0	2016.4
35°	1998.4	1987.8	2015.4	2017.5	1910.4	1718.5	1640.1	1653.9	1676.1	1841.5	2006.9
37.5°	2122.5	2140.5	2172.3	2223.2	2112.9	1907.2	1744.0	1698.4	1707.9	1880.7	2014.3
40°	2258.2	2276.2	2348.3	2399.2	2336.6	2119.3	1901.9	1802.3	1809.7	1939.0	2052.5
42.5°	2407.6	2442.6	2528.5	2617.6	2600.6	2388.6	2105.5	1954.9	1951.8	2084.3	2130.9
45°	2610.1	2656.8	2750.1	2852.9	2867.8	2697.1	2376.9	2182.9	2193.5	2274.1	2293.1
47.5°	2892.1	2890.0	2981.2	3095.7	3181.6	3017.2	2701.3	2489.3	2488.2	2574.1	2533.8
50°	3164.6	3165.7	3190.0	3322.6	3545.2	3461.4	3103.1	2896.4	2884.7	2927.1	2862.5
52.5°	3290.8	3275.9	3257.9	3418.0	3825.1	4021.2	3612.0	3357.5	3348.0	3322.6	3305.6
55°	3158.2	3163.5	3162.5	3328.9	3972.4	4611.7	4265.1	3865.4	3849.5	3770.0	3793.3
57.5°	2733.1	2716.1	2753.3	3013.0	3803.9	5014.6	5199.1	4505.7	4464.4	4200.4	4147.4
60°	2034.5	2039.8	2070.5	2376.9	3385.1	5099.4	6092.8	5257.4	5079.3	4503.6	4430.4
62.5°	1420.6	1410.0	1421.7	1593.4	2420.4	4760.2	6697.1	6171.2	5999.5	4848.1	4805.7
65°	1016.7	1002.9	1049.6	1154.5	1453.5	3639.6	6783.0	7388.3	7234.6	5398.4	5296.6
67.5°	731.5	729.4	783.5	974.3	1032.6	2096.0	6146.9	8490.9	8397.6	6051.4	5595.6
69°	605.4	606.4	658.4	872.5	986.0	1431.2	5289.2	8680.7	8663.7	6388.6	5539.4
70°	528.0	532.2	592.6	812.1	966.9	1176.8	4559.8	8494.1	8477.1	6454.3	5353.8
72.5°	325.5	328.7	408.2	650.9	919.2	960.5	2726.8	6949.4	7007.7	6153.2	4612.8
75°	155.8	156.9	214.2	470.7	886.3	910.7	1460.9	5128.0	5251.0	4967.9	3604.6
77.5°	82.7	82.7	102.8	250.2	717.7	856.6	867.2	3617.3	3719.1	3141.3	2049.3
80°	41.3	42.4	62.5	130.4	445.3	839.7	677.4	2157.4	2212.6	1281.7	638.2
82.5°	15.9	17.0	29.7	78.5	231.1	709.3	594.8	1061.2	1047.4	300.0	155.8
85°	2.1	2.1	10.6	46.6	98.6	312.7	490.9	443.1	428.3	65.7	75.3
87.5°	0.0	0.0	2.1	13.8	29.7	91.2	189.8	121.9	135.7	18.0	37.1
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°	1981.5	1981.5	1981.5	1981.5	1981.5	1981.5	1981.5	1981.5	1981.5	1981.5	1981.5
2.5°	2012.2	1989.9	1956.0	1923.1	1888.2	1845.8	1799.1	1782.1	1752.5	1750.3	1767.3
5°	2010.1	1974.0	1914.7	1844.7	1745.0	1669.8	1588.1	1528.8	1483.2	1453.5	1460.9
7.5°	2020.7	1977.2	1874.4	1723.8	1595.6	1446.1	1319.9	1233.0	1153.5	1114.2	1110.0
10°	2003.7	1945.4	1794.9	1583.9	1395.2	1186.3	1001.9	885.2	766.5	723.0	725.2
12.5°	2013.3	1931.6	1709.0	1439.7	1180.0	908.6	688.0	529.0	417.7	381.7	377.4
15°	2019.6	1901.9	1626.3	1266.9	941.4	619.1	398.6	300.0	265.0	258.7	257.6
17.5°	1995.2	1865.9	1509.7	1096.2	697.6	376.4	265.0	244.9	238.5	234.3	232.2
20°	1994.2	1844.7	1409.0	921.3	465.4	256.6	229.0	221.6	212.0	208.9	208.9
22.5°	1976.2	1800.2	1288.1	729.4	296.8	220.5	205.7	194.0	183.4	179.2	178.1
25°	1970.9	1748.2	1174.7	548.1	225.8	197.2	182.3	165.4	152.7	146.3	143.1
27.5°	1956.0	1703.7	1060.2	385.9	197.2	176.0	156.9	138.9	124.0	114.5	113.4
30°	1903.0	1657.0	932.9	267.2	179.2	155.8	134.6	113.4	98.6	92.2	90.1
32.5°	1880.7	1613.6	794.1	205.7	163.3	137.8	113.4	94.4	82.7	76.3	75.3
35°	1854.2	1550.0	659.4	179.2	148.4	119.8	95.4	79.5	70.0	64.7	64.7
37.5°	1857.4	1499.1	533.3	162.2	132.5	102.8	81.6	67.9	59.4	54.1	54.1
40°	1847.9	1458.8	414.5	147.4	117.7	88.0	68.9	57.2	49.8	44.5	43.5
42.5°	1891.3	1448.2	312.7	134.6	102.8	75.3	59.4	48.8	41.3	35.0	35.0
45°	1964.5	1465.2	243.8	123.0	88.0	64.7	50.9	40.3	32.9	28.6	27.6
47.5°	2159.6	1531.9	190.8	113.4	75.3	56.2	42.4	32.9	26.5	22.3	21.2
50°	2442.6	1681.4	162.2	99.7	63.6	47.7	35.0	25.4	21.2	17.0	15.9
52.5°	2845.5	1932.7	147.4	88.0	53.0	39.2	27.6	20.1	15.9	12.7	11.7
55°	3284.4	2246.5	133.6	74.2	44.5	31.8	22.3	15.9	11.7	8.5	7.4
57.5°	3626.8	2517.9	121.9	61.5	36.0	25.4	17.0	11.7	8.5	5.3	4.2
60°	4001.1	2708.7	107.1	48.8	29.7	19.1	12.7	8.5	6.4	3.2	3.2
62.5°	4387.0	2932.4	88.0	38.2	23.3	14.8	9.5	6.4	4.2	1.1	1.1
65°	4923.4	3107.4	67.9	29.7	18.0	10.6	7.4	5.3	2.1	0.0	0.0
67.5°	5075.0	3021.5	49.8	23.3	12.7	7.4	5.3	3.2	1.1	0.0	0.0
69°	4923.4	2721.4	43.5	20.1	10.6	6.4	4.2	2.1	1.1	0.0	0.0
70°	4646.7	2488.2	38.2	17.0	9.5	6.4	3.2	2.1	1.1	0.0	0.0
72.5°	3886.6	1908.3	29.7	12.7	7.4	5.3	3.2	2.1	0.0	0.0	0.0
75°	2850.8	1178.9	22.3	9.5	6.4	4.2	3.2	2.1	0.0	0.0	0.0
77.5°	1527.7	430.4	15.9	6.4	4.2	3.2	3.2	2.1	0.0	0.0	0.0
80°	418.8	127.2	11.7	4.2	3.2	2.1	2.1	1.1	0.0	0.0	0.0
82.5°	114.5	32.9	7.4	4.2	3.2	2.1	1.1	0.0	0.0	0.0	0.0
85°	61.5	12.7	4.2	3.2	2.1	1.1	0.0	0.0	0.0	0.0	0.0
87.5°	31.8	4.2	3.2	2.1	2.1	1.1	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)