

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: P480921

Luminaire Tested: **IFLD-S-SA2B-750-U-SL4**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480921
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-750-U-SL4
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL4 distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

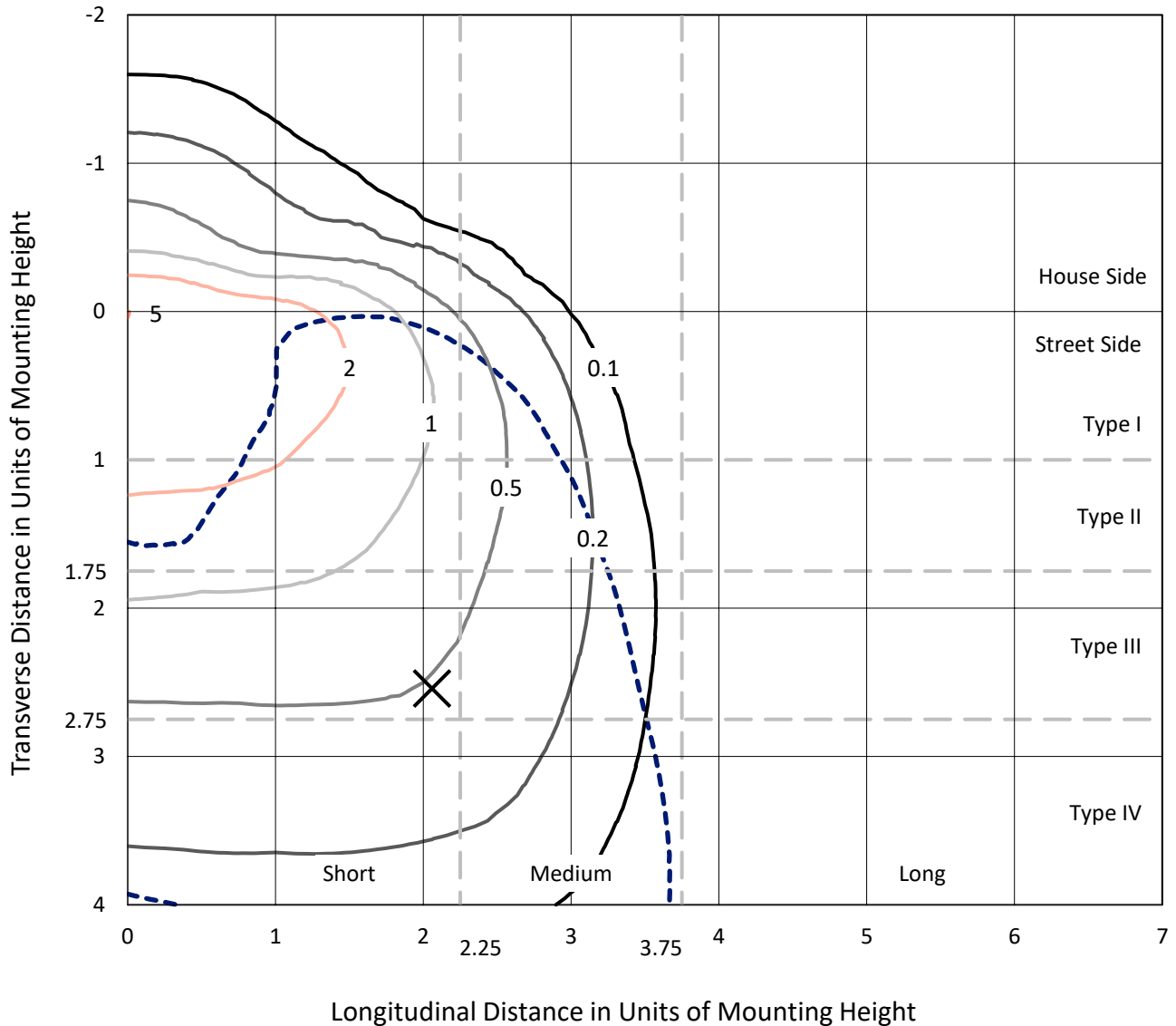
Lumens per Lamp: N/A
Luminaire Lumens: 11297.1 lumens
Efficiency: N/A
Efficacy: 137.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G3

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

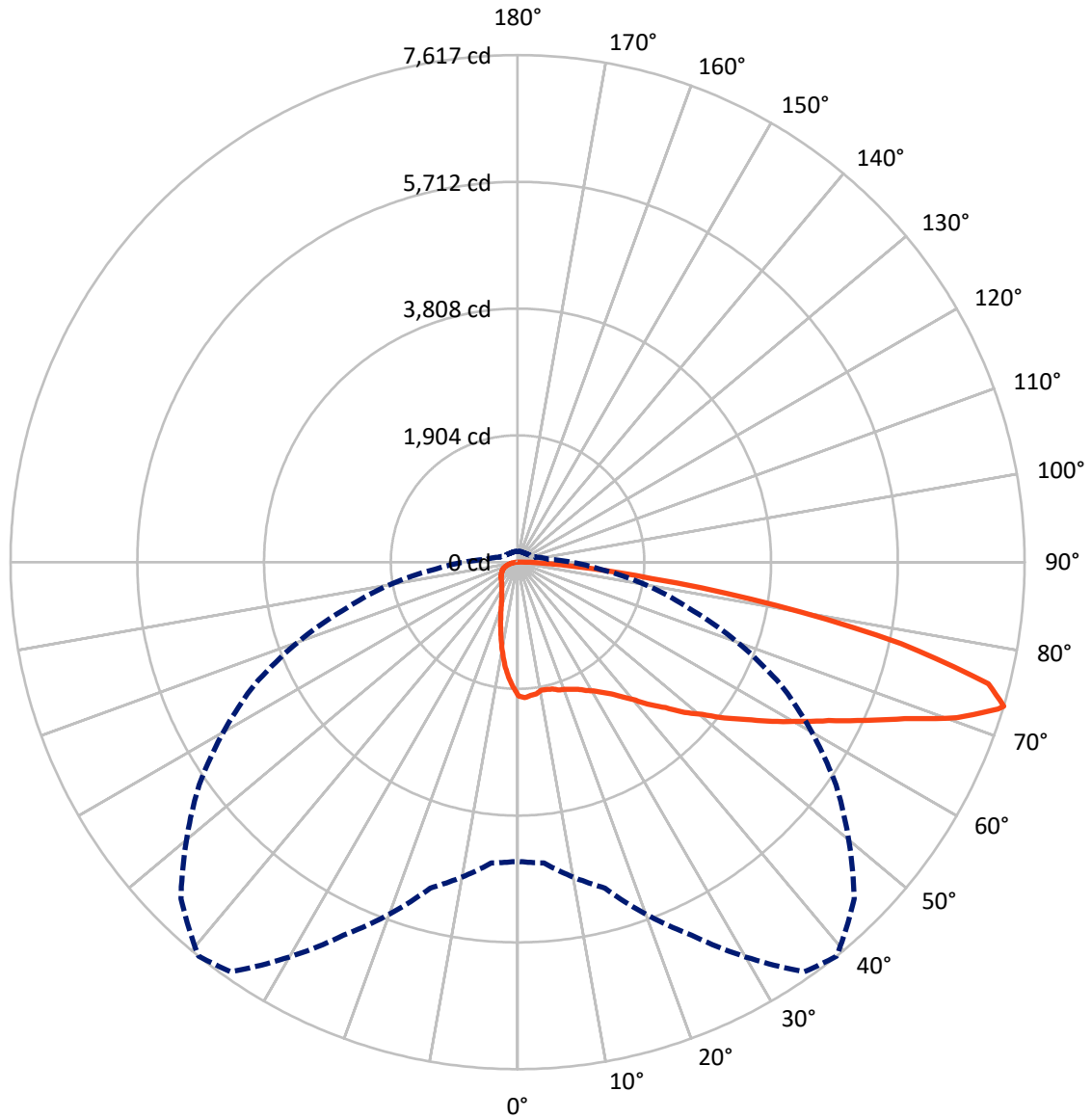
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 39-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1588.1	0.0	1588.1
	% Fixture	14.1	0.0	14.1
Street Side	Lumens	9709.0	0.0	9709.0
	% Fixture	85.9	0.0	85.9
Total	Lumens	11297.1	0.0	11297.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.6	1.5
10°-20°	443.8	3.9
20°-30°	678.1	6.0
30°-40°	988.7	8.8
40°-50°	1494.1	13.2
50°-60°	2163.5	19.2
60°-70°	2748.9	24.3
70°-80°	2228.4	19.7
80°-90°	377.0	3.3
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°	11297.1	100.0
0°-180°	11297.1	100.0

Coefficient of Utilization



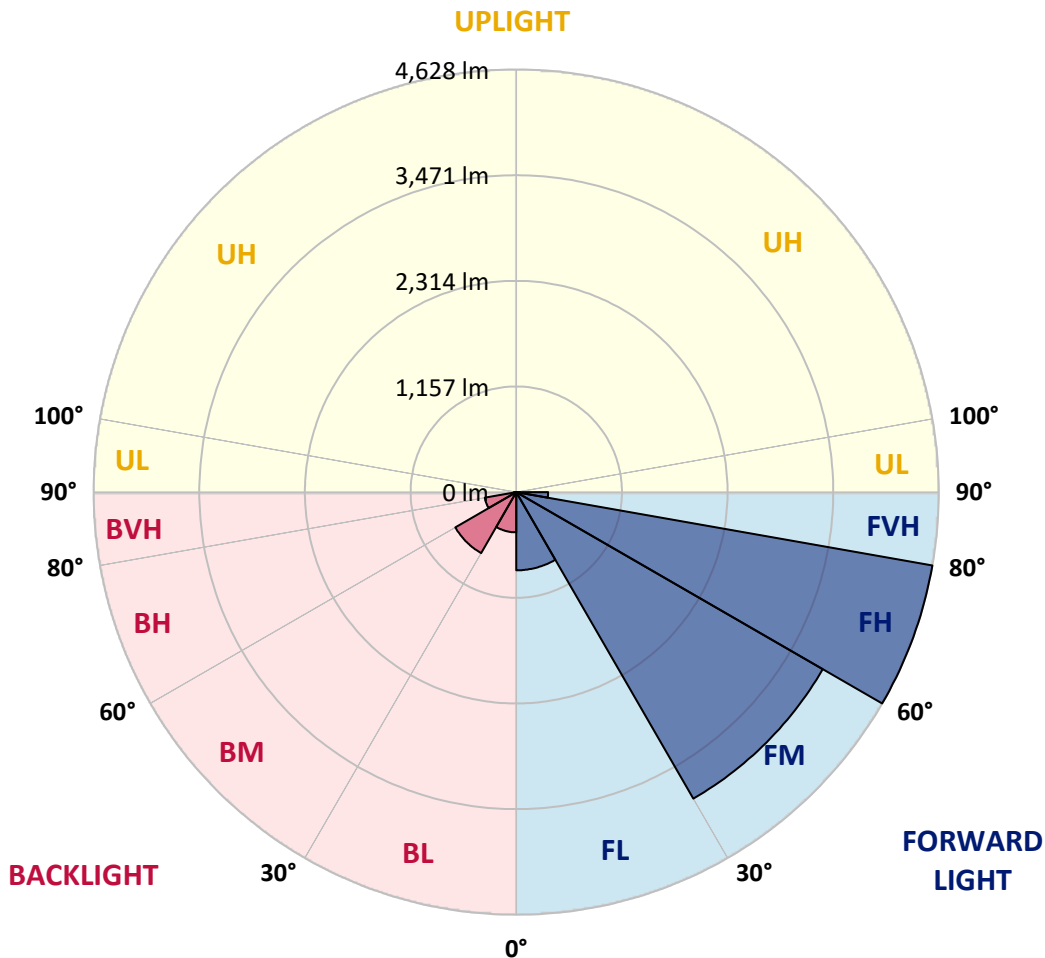
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	856.1	7.6			
FM (30°-60°)	3875.6	34.3			
FH (60°-80°)	4628.0	41.0			G2/5000
FVH (80°-90°)	349.4	3.1			G3/500
BL (0°-30°)	440.4	3.9	B1/500		
BM (30°-60°)	770.7	6.8	B1/1000		
BH (60°-80°)	349.3	3.1	B1/500		G1/500
BVH (80°-90°)	27.7	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	39°	45°	55°	65°	75°	85°
0°	2011.0	2011.0	2011.0	2011.0	2011.0	2011.0	2011.0	2011.0	2011.0	2011.0	2011.0
2.5°	2059.0	2037.5	2041.3	2033.7	2041.3	2038.8	2035.0	2016.0	2035.0	2016.0	2011.0
5°	2031.2	2031.2	2043.8	2024.9	2027.4	2014.7	2027.4	2013.5	2000.8	1969.2	1960.4
7.5°	2022.3	2021.1	2022.3	1995.8	2008.4	2000.8	1988.2	1973.0	1947.8	1927.5	1898.5
10°	1961.7	1974.3	1960.4	1968.0	1978.1	1955.3	1954.1	1950.3	1938.9	1912.4	1894.7
12.5°	1928.8	1950.3	1957.9	1951.5	1960.4	1962.9	1955.3	1950.3	1936.4	1918.7	1868.1
15°	1942.7	1917.4	1938.9	1980.6	1971.8	1978.1	1979.4	1974.3	1968.0	1935.1	1902.3
17.5°	1946.5	1931.3	1976.8	1985.7	1997.0	2019.8	2004.6	2003.4	1979.4	1956.6	1908.6
20°	1955.3	1949.0	1985.7	2032.4	2033.7	2037.5	2045.1	2026.1	2013.5	1974.3	1901.0
22.5°	1988.2	2009.7	2043.8	2064.0	2075.4	2077.9	2077.9	2040.0	2026.1	1994.5	1936.4
25°	2086.8	2064.0	2112.1	2136.1	2119.7	2115.9	2107.0	2072.9	2057.7	2029.9	1952.8
27.5°	2158.8	2157.6	2185.4	2218.2	2174.0	2182.8	2151.2	2141.1	2107.0	2091.8	1981.9
30°	2257.4	2285.2	2284.0	2294.1	2235.9	2246.0	2205.6	2186.6	2167.7	2176.5	2067.8
32.5°	2383.8	2373.7	2390.1	2382.6	2324.4	2333.3	2285.2	2256.2	2262.5	2289.0	2185.4
35°	2464.7	2454.6	2460.9	2460.9	2443.2	2433.1	2412.9	2375.0	2405.3	2454.6	2316.8
37.5°	2551.9	2564.6	2601.2	2593.6	2570.9	2570.9	2568.4	2541.8	2581.0	2702.3	2526.6
40°	2629.0	2663.2	2685.9	2701.1	2727.6	2727.6	2749.1	2733.9	2804.7	2999.4	2783.2
42.5°	2709.9	2711.2	2835.0	2846.4	2905.8	2931.1	2947.5	2960.2	3092.9	3310.3	3057.5
45°	2813.6	2819.9	2928.6	3015.8	3108.1	3116.9	3178.8	3220.6	3383.6	3650.3	3355.8
47.5°	2950.1	2942.5	3058.8	3197.8	3312.8	3373.5	3448.1	3493.6	3694.5	4019.4	3681.9
50°	3129.6	3106.8	3173.8	3392.5	3527.7	3594.7	3727.4	3803.2	4038.3	4372.0	3905.6
52.5°	3348.2	3310.3	3363.4	3602.3	3753.9	3889.2	4015.6	4100.3	4345.5	4645.0	4071.2
55°	3579.5	3501.2	3516.3	3824.7	4043.4	4171.0	4344.2	4432.7	4683.0	4890.2	4236.8
57.5°	3808.3	3759.0	3728.7	4038.3	4388.4	4511.1	4670.3	4785.3	4997.7	5107.6	4377.1
60°	4000.4	3987.8	3938.5	4369.5	4753.7	4858.6	5025.5	5096.3	5256.8	5308.6	4379.6
62.5°	4158.4	4115.4	4193.8	4636.2	5125.3	5244.1	5427.4	5433.7	5547.5	5433.7	4250.7
65°	4282.3	4284.8	4409.9	4958.5	5555.1	5730.8	5878.7	5862.2	5788.9	5359.2	3946.1
67.5°	4394.8	4442.8	4626.1	5312.4	6107.4	6273.0	6437.3	6219.9	5854.6	5010.3	3350.7
70°	4483.2	4531.3	4918.0	5743.4	6758.4	7001.0	7037.7	6361.5	5552.6	4244.4	2527.9
72.5°	4473.1	4560.3	5083.6	6087.2	7336.0	7545.8	7250.0	5963.3	4626.1	2958.9	1475.0
73°	4494.6	4537.6	5069.7	6183.3	7511.7	7616.6	7151.5	5838.2	4363.2	2654.3	1247.5
75°	4080.0	4225.4	4818.2	6026.5	7323.4	7304.4	6585.2	4865.0	3101.7	1394.1	604.2
77.5°	3018.3	3110.6	3796.9	4956.0	6011.4	5890.0	4967.3	3109.3	1472.5	517.0	326.1
80°	1475.0	1547.1	2012.2	2861.6	3930.9	3941.0	3082.8	1617.9	630.7	292.0	222.5
82.5°	736.9	779.9	966.9	1257.6	1933.8	2026.1	1563.5	920.2	390.6	165.6	126.4
85°	481.6	511.9	595.3	615.5	820.3	865.8	728.0	717.9	254.1	89.7	102.4
87.5°	319.8	324.8	365.3	310.9	328.6	316.0	351.4	452.5	74.6	37.9	27.8
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°	2011.0	2011.0	2011.0	2011.0	2011.0	2011.0	2011.0	2011.0	2011.0	2011.0	2011.0
2.5°	2004.6	1986.9	1968.0	1941.4	1922.5	1893.4	1866.9	1855.5	1853.0	1854.2	1841.6
5°	1952.8	1927.5	1889.6	1835.3	1803.7	1755.6	1715.2	1693.7	1670.9	1674.7	1664.6
7.5°	1880.8	1853.0	1794.8	1731.6	1653.3	1585.0	1547.1	1494.0	1463.7	1440.9	1453.5
10°	1858.0	1810.0	1722.8	1635.6	1514.2	1424.5	1337.3	1276.6	1234.9	1194.4	1212.1
12.5°	1846.6	1798.6	1677.3	1548.3	1391.6	1255.1	1132.5	1057.9	998.5	963.1	977.0
15°	1836.5	1777.1	1634.3	1452.3	1276.6	1097.1	959.3	860.8	803.9	769.7	773.5
17.5°	1850.4	1765.7	1571.1	1358.8	1150.2	958.1	805.1	702.8	644.6	623.1	618.1
20°	1836.5	1753.1	1509.2	1265.2	1023.8	825.4	678.7	594.1	553.6	535.9	532.1
22.5°	1841.6	1722.8	1444.7	1161.6	906.3	714.1	594.1	529.6	498.0	489.2	491.7
25°	1865.6	1705.1	1380.2	1047.8	790.0	632.0	539.7	490.4	467.7	458.8	461.3
27.5°	1883.3	1720.2	1322.1	940.4	691.4	558.7	494.2	461.3	446.2	439.9	438.6
30°	1927.5	1729.1	1265.2	844.3	610.5	510.6	462.6	436.1	426.0	422.2	420.9
32.5°	1993.3	1745.5	1199.5	755.8	551.1	465.1	437.3	414.6	412.0	408.3	409.5
35°	2100.7	1802.4	1126.2	680.0	494.2	434.8	410.8	395.6	395.6	395.6	399.4
37.5°	2254.9	1882.0	1060.5	608.0	457.6	408.3	388.0	383.0	380.5	384.2	386.8
40°	2453.3	1978.1	1007.4	551.1	426.0	390.6	372.9	370.3	369.1	367.8	370.3
42.5°	2670.7	2100.7	961.9	506.8	403.2	371.6	359.0	356.4	351.4	353.9	357.7
45°	2886.9	2252.4	921.4	471.5	388.0	361.5	343.8	342.5	340.0	338.7	345.1
47.5°	3127.0	2401.5	908.8	450.0	376.7	346.3	333.7	332.4	324.8	323.6	328.6
50°	3314.1	2511.5	922.7	439.9	360.2	334.9	326.1	319.8	313.5	307.1	307.1
52.5°	3443.0	2587.3	932.8	432.3	351.4	319.8	308.4	305.9	299.6	293.2	290.7
55°	3559.3	2632.8	935.3	433.5	342.5	302.1	294.5	293.2	289.4	279.3	276.8
57.5°	3598.5	2613.9	884.8	422.2	337.5	290.7	280.6	283.1	278.1	269.2	268.0
60°	3594.7	2482.4	769.7	407.0	326.1	278.1	265.4	273.0	273.0	262.9	261.6
62.5°	3376.0	2179.1	629.4	377.9	313.5	265.4	251.5	262.9	266.7	260.4	259.1
65°	2922.3	1774.6	525.8	348.9	294.5	251.5	237.6	250.3	256.6	254.1	252.8
67.5°	2417.9	1357.5	437.3	310.9	270.5	232.6	221.2	230.0	233.8	235.1	236.4
70°	1708.9	903.7	365.3	269.2	237.6	212.3	199.7	201.0	199.7	203.5	203.5
72.5°	929.0	520.7	297.0	228.8	204.8	184.5	175.7	169.4	169.4	168.1	168.1
73°	795.0	467.7	283.1	222.5	195.9	179.5	169.4	164.3	164.3	163.1	161.8
75°	446.2	342.5	242.7	190.9	169.4	156.7	149.1	141.6	140.3	140.3	140.3
77.5°	293.2	266.7	193.4	152.9	136.5	125.1	122.6	115.0	115.0	115.0	113.8
80°	219.9	209.8	149.1	116.3	104.9	96.1	93.5	88.5	87.2	82.2	83.4
82.5°	146.6	165.6	108.7	82.2	70.8	65.7	65.7	64.5	60.7	54.4	54.4
85°	116.3	135.2	78.4	50.6	41.7	35.4	36.7	35.4	34.1	27.8	26.5
87.5°	21.5	54.4	22.8	13.9	10.1	6.3	6.3	3.8	2.5	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)