

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: P480259

Luminaire Tested: **IFLD-S-SA2C-830-U-SL2**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P480259
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2C-830-U-SL2
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ SL2 distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

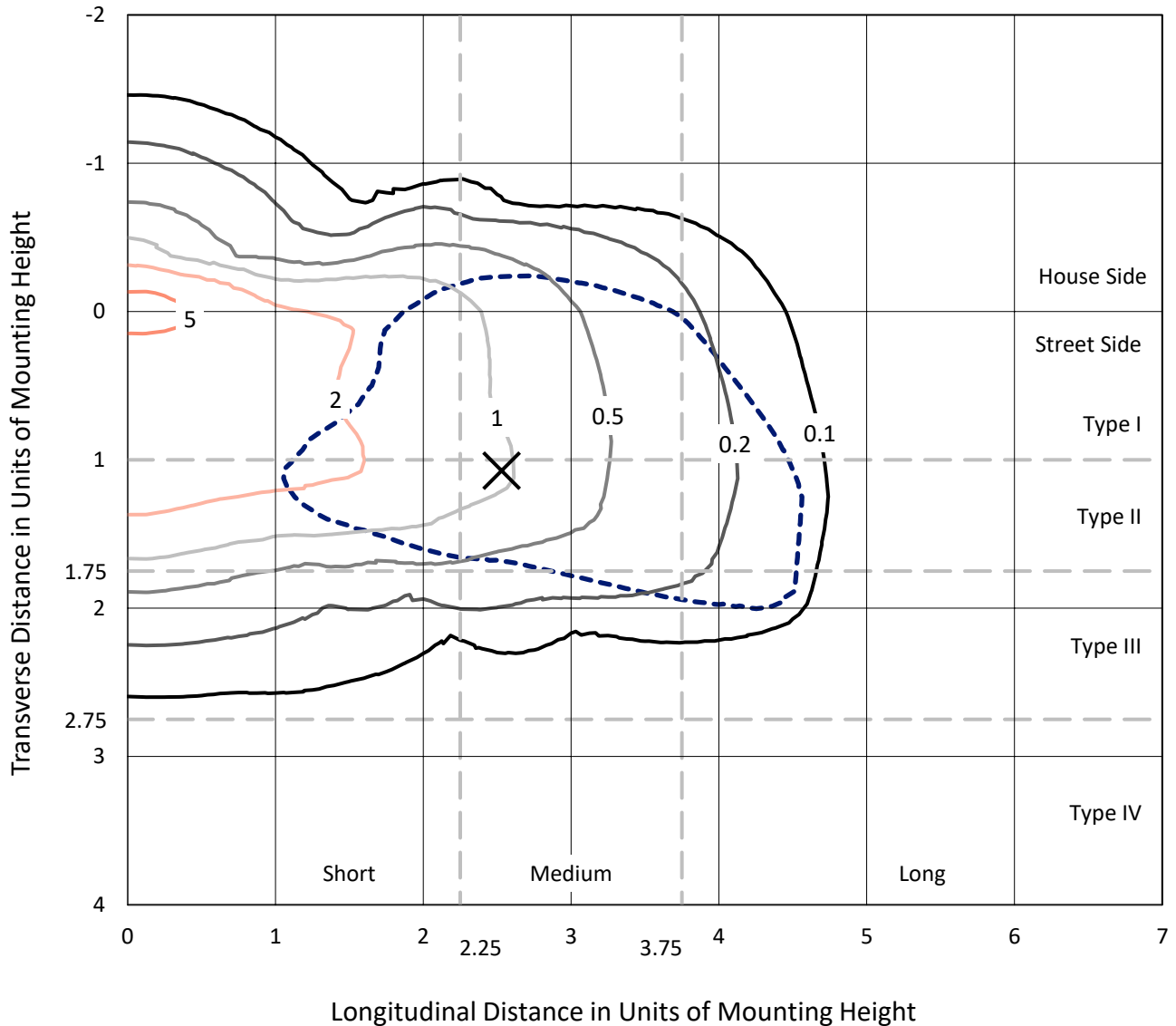
Lumens per Lamp: N/A
Luminaire Lumens: 11260.7 lumens
Efficiency: N/A
Efficacy: 104.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B2 - U0 - G3

Input Watts (W): 108.2
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

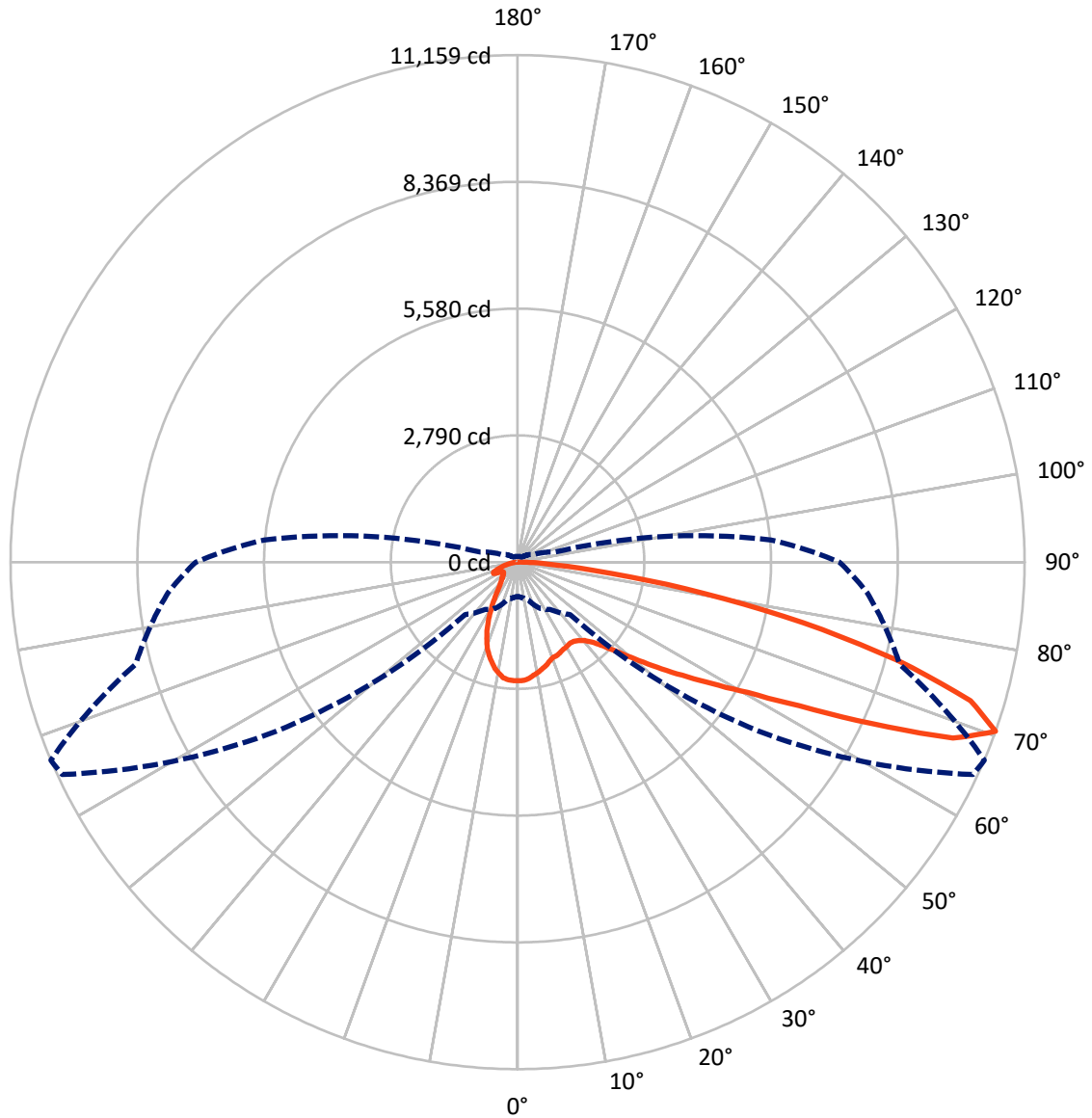
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.6 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2193.1	0.0	2193.1
	% Fixture	19.5	0.0	19.5
Street Side	Lumens	9067.6	0.0	9067.6
	% Fixture	80.5	0.0	80.5
Total	Lumens	11260.7	0.0	11260.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	227.4	2.0
10°-20°	544.7	4.8
20°-30°	735.6	6.5
30°-40°	984.3	8.7
40°-50°	1447.4	12.9
50°-60°	2256.2	20.0
60°-70°	2779.3	24.7
70°-80°	1963.8	17.4
80°-90°	321.9	2.9
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°	11260.7	100.0
0°-180°	11260.7	100.0

Coefficient of Utilization

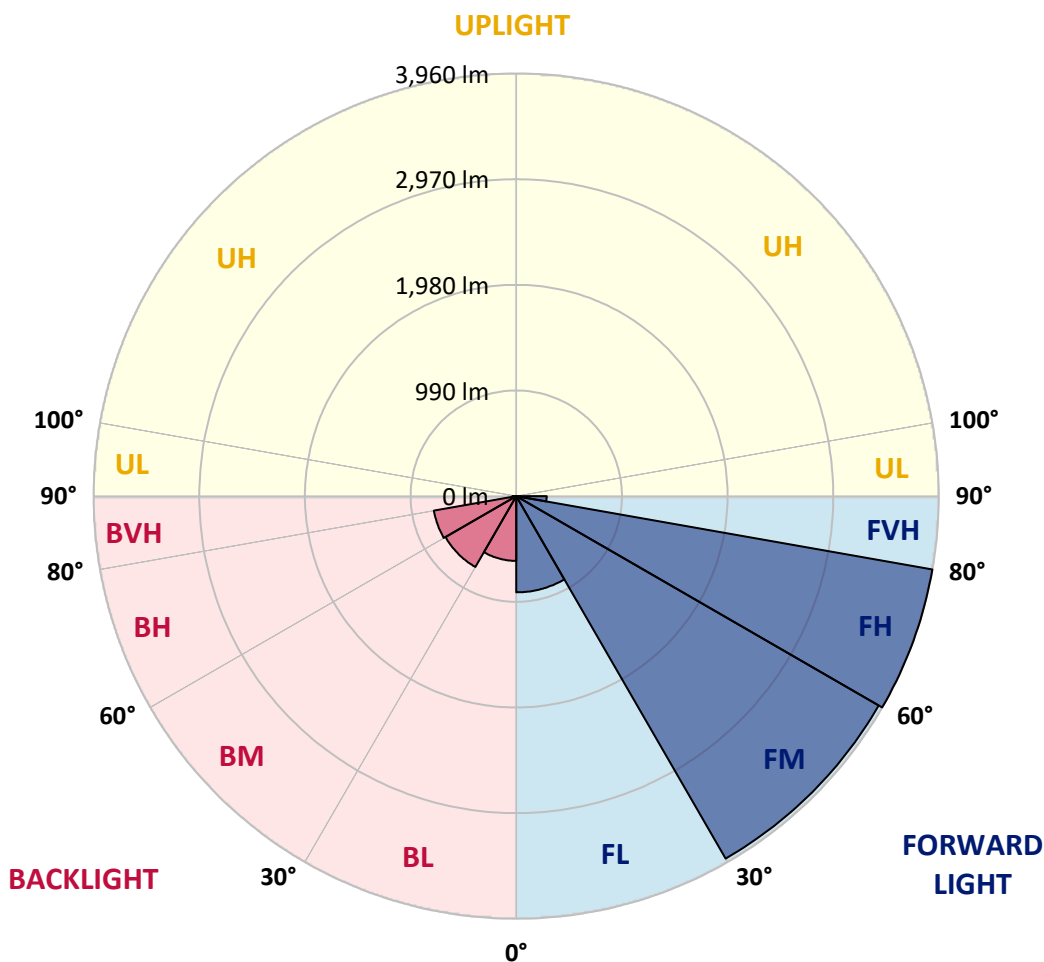


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	901.3	8.0			
FM (30°-60°)	3921.9	34.8			
FH (60°-80°)	3959.7	35.2			G2/5000
FVH (80°-90°)	284.7	2.5			G3/500
BL (0°-30°)	606.5	5.4	B2/1000		
BM (30°-60°)	766.1	6.8	B1/1000		
BH (60°-80°)	783.4	7.0	B2/1000		G2/1000
BVH (80°-90°)	37.1	0.3			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	67°	75°	85°
0°	2606.8	2606.8	2606.8	2606.8	2606.8	2606.8	2606.8	2606.8	2606.8	2606.8	2606.8
2.5°	2427.3	2454.7	2464.7	2479.7	2518.3	2547.0	2564.4	2584.4	2608.1	2628.0	2640.5
5°	2257.8	2272.7	2296.4	2312.6	2361.2	2438.5	2490.9	2575.7	2573.2	2604.3	2651.7
7.5°	2093.2	2108.2	2119.4	2151.8	2221.6	2291.4	2387.4	2524.5	2514.6	2586.9	2660.4
10°	1991.0	1979.7	1983.5	2038.3	2093.2	2171.7	2292.7	2432.3	2468.4	2580.6	2685.4
12.5°	1895.0	1882.5	1912.4	1947.3	2014.6	2085.7	2230.3	2356.2	2411.1	2558.2	2696.6
15°	1835.1	1826.4	1863.8	1878.8	1958.5	2043.3	2145.6	2298.9	2358.7	2530.8	2679.1
17.5°	1801.5	1808.9	1822.7	1855.1	1906.2	1978.5	2090.7	2260.2	2286.4	2497.1	2675.4
20°	1807.7	1816.4	1817.7	1831.4	1866.3	1922.4	2037.1	2219.1	2236.6	2490.9	2685.4
22.5°	1857.6	1845.1	1850.1	1841.4	1851.3	1895.0	1995.9	2164.3	2231.6	2438.5	2664.2
25°	1932.4	1914.9	1912.4	1882.5	1863.8	1876.3	1988.5	2150.5	2194.2	2422.3	2662.9
27.5°	2064.5	2038.3	2038.3	1993.5	1917.4	1897.5	1967.3	2128.1	2166.7	2407.4	2634.3
30°	2191.7	2191.7	2192.9	2129.3	2044.6	1946.1	1976.0	2119.4	2144.3	2362.5	2595.6
32.5°	2346.3	2342.5	2336.3	2305.1	2174.2	2027.1	2018.4	2108.2	2120.6	2347.5	2584.4
35°	2497.1	2487.1	2535.8	2508.3	2374.9	2185.4	2062.0	2113.1	2140.6	2325.1	2549.5
37.5°	2610.6	2616.8	2717.8	2735.2	2620.5	2365.0	2185.4	2163.0	2189.2	2357.5	2549.5
40°	2757.7	2782.6	2877.4	2936.0	2866.1	2601.8	2381.2	2246.5	2265.2	2429.8	2604.3
42.5°	2950.9	2972.1	3093.0	3169.1	3149.1	2903.5	2574.4	2421.1	2406.1	2550.7	2686.6
45°	3206.5	3210.2	3332.4	3437.1	3478.3	3218.9	2881.1	2641.7	2629.3	2758.9	2837.5
47.5°	3510.7	3506.9	3583.0	3695.2	3806.1	3595.4	3233.9	2977.1	2932.2	3056.9	3088.0
50°	3804.9	3788.7	3806.1	3949.5	4162.7	4066.7	3662.8	3387.3	3342.4	3410.9	3464.5
52.5°	3967.0	3986.9	3939.5	4129.0	4541.7	4624.0	4231.3	3877.2	3838.6	3872.2	3965.7
55°	3853.5	3894.7	3863.5	4043.0	4707.5	5303.4	4966.8	4444.4	4394.6	4382.1	4535.5
57.5°	3371.0	3445.8	3452.1	3736.3	4650.1	5829.5	6001.6	5113.9	5039.1	4912.0	5070.3
60°	2588.1	2662.9	2720.3	3056.9	4159.0	6143.7	7200.9	6066.4	5819.5	5490.4	5585.2
62.5°	1813.9	1865.0	1922.4	2129.3	3206.5	5959.2	8238.1	7407.8	6952.8	6100.0	6218.5
65°	1321.5	1361.4	1420.0	1542.2	1969.8	4930.7	8719.3	9001.1	8569.7	6875.5	6860.5
67.5°	994.9	1019.8	1097.1	1292.8	1365.1	3045.7	8220.7	10684.1	10335.0	7736.9	7376.7
70°	753.0	774.2	846.5	1114.5	1275.4	1633.2	6485.3	11059.4	11159.1	8703.1	7723.2
72.5°	518.6	542.3	623.3	928.8	1214.3	1295.3	4070.4	10047.1	10424.8	9100.8	7351.7
75°	317.9	334.1	381.5	704.4	1205.5	1266.6	2240.3	8233.1	8633.3	8408.9	6431.7
77.5°	224.4	223.2	231.9	412.7	1044.7	1274.1	1381.3	6032.7	6421.7	6197.3	4364.7
80°	163.3	164.6	173.3	246.8	709.4	1295.3	1088.4	4040.5	4156.5	3231.4	1721.7
82.5°	98.5	103.5	124.7	167.1	426.4	1169.4	1006.1	2245.3	2100.7	1037.2	473.7
85°	52.4	52.4	73.6	106.0	226.9	872.7	968.7	1068.4	895.1	321.6	175.8
87.5°	12.5	12.5	21.2	42.4	91.0	417.6	660.7	425.1	340.3	108.5	72.3
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°	2606.8	2606.8	2606.8	2606.8	2606.8	2606.8	2606.8	2606.8	2606.8	2606.8	2606.8
2.5°	2635.5	2620.5	2639.2	2601.8	2571.9	2573.2	2527.0	2524.5	2518.3	2485.9	2497.1
5°	2665.4	2653.0	2631.8	2590.6	2524.5	2458.5	2418.6	2367.5	2346.3	2335.0	2340.0
7.5°	2694.1	2671.7	2610.6	2553.2	2451.0	2326.3	2254.0	2185.4	2098.2	2088.2	2070.7
10°	2701.6	2654.2	2575.7	2453.5	2317.6	2179.2	2014.6	1887.5	1820.2	1767.8	1747.9
12.5°	2690.4	2670.4	2519.6	2362.5	2156.8	1939.8	1747.9	1568.3	1443.7	1378.8	1361.4
15°	2689.1	2654.2	2457.2	2224.1	1961.0	1678.0	1405.0	1189.3	1058.4	1004.8	1004.8
17.5°	2690.4	2606.8	2383.7	2084.5	1730.4	1347.7	1047.2	870.2	797.9	790.4	796.6
20°	2665.4	2571.9	2306.4	1919.9	1441.2	1012.3	760.5	688.2	688.2	698.1	701.9
22.5°	2643.0	2519.6	2184.2	1716.7	1147.0	733.1	618.4	597.2	620.9	638.3	645.8
25°	2611.8	2475.9	2059.5	1506.0	872.7	590.9	537.3	542.3	564.7	595.9	593.4
27.5°	2566.9	2399.9	1911.2	1261.6	649.5	509.9	496.2	498.7	522.4	536.1	533.6
30°	2515.8	2322.6	1774.0	1018.5	514.9	467.5	466.3	472.5	476.2	483.7	482.5
32.5°	2451.0	2220.4	1628.2	791.6	463.8	443.8	438.8	435.1	438.8	437.6	433.8
35°	2404.9	2165.5	1479.8	603.4	435.1	422.6	418.9	412.7	407.7	400.2	398.9
37.5°	2392.4	2110.6	1324.0	492.4	412.7	406.4	394.0	382.7	376.5	372.8	370.3
40°	2384.9	2074.5	1171.9	432.6	394.0	387.7	372.8	357.8	351.6	347.8	349.1
42.5°	2411.1	2054.5	1017.3	402.7	377.7	366.5	350.3	332.9	331.6	329.1	332.9
45°	2503.4	2079.5	873.9	381.5	361.5	342.8	321.6	312.9	311.7	309.2	311.7
47.5°	2712.8	2141.8	751.8	367.8	344.1	327.9	305.4	293.0	291.7	290.5	290.5
50°	3002.0	2333.8	649.5	351.6	332.9	310.4	289.2	275.5	273.0	268.0	268.0
52.5°	3455.8	2656.7	588.4	342.8	312.9	294.2	271.8	256.8	250.6	245.6	245.6
55°	3967.0	3056.9	577.2	327.9	291.7	274.3	254.3	239.4	233.1	226.9	224.4
57.5°	4549.2	3586.7	657.0	317.9	276.8	254.3	231.9	218.2	213.2	207.0	204.5
60°	5091.5	4115.3	905.1	302.9	263.1	235.6	213.2	199.5	193.2	187.0	187.0
62.5°	5718.6	4769.8	1325.2	302.9	250.6	215.7	193.2	183.3	179.5	173.3	172.0
65°	6460.3	5446.8	1631.9	321.6	246.8	198.2	174.5	164.6	160.8	157.1	155.8
67.5°	7025.1	5835.7	1403.8	371.5	263.1	183.3	155.8	149.6	147.1	143.4	140.9
70°	7084.9	5598.9	846.5	401.4	279.3	168.3	139.6	133.4	133.4	129.7	127.2
72.5°	6547.6	4968.1	569.7	357.8	253.1	150.8	123.4	118.4	115.9	113.4	112.2
75°	5479.2	4213.8	450.1	285.5	194.5	124.7	107.2	102.2	98.5	97.2	94.7
77.5°	3680.2	2739.0	332.9	223.2	143.4	101.0	89.8	84.8	81.0	79.8	76.0
80°	1413.7	1043.5	214.4	162.1	101.0	79.8	71.1	66.1	63.6	59.8	57.3
82.5°	416.4	337.9	119.7	99.7	64.8	54.9	51.1	47.4	43.6	39.9	38.6
85°	172.0	154.6	73.6	52.4	39.9	32.4	29.9	26.2	22.4	19.9	17.5
87.5°	79.8	66.1	33.7	19.9	13.7	7.5	3.7	1.2	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)