

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: P481431

Luminaire Tested: **IFLD-S-SA2E-830-U-RW**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P481431
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2E-830-U-RW
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ RW distribution lens
Light Source: (32) 3000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

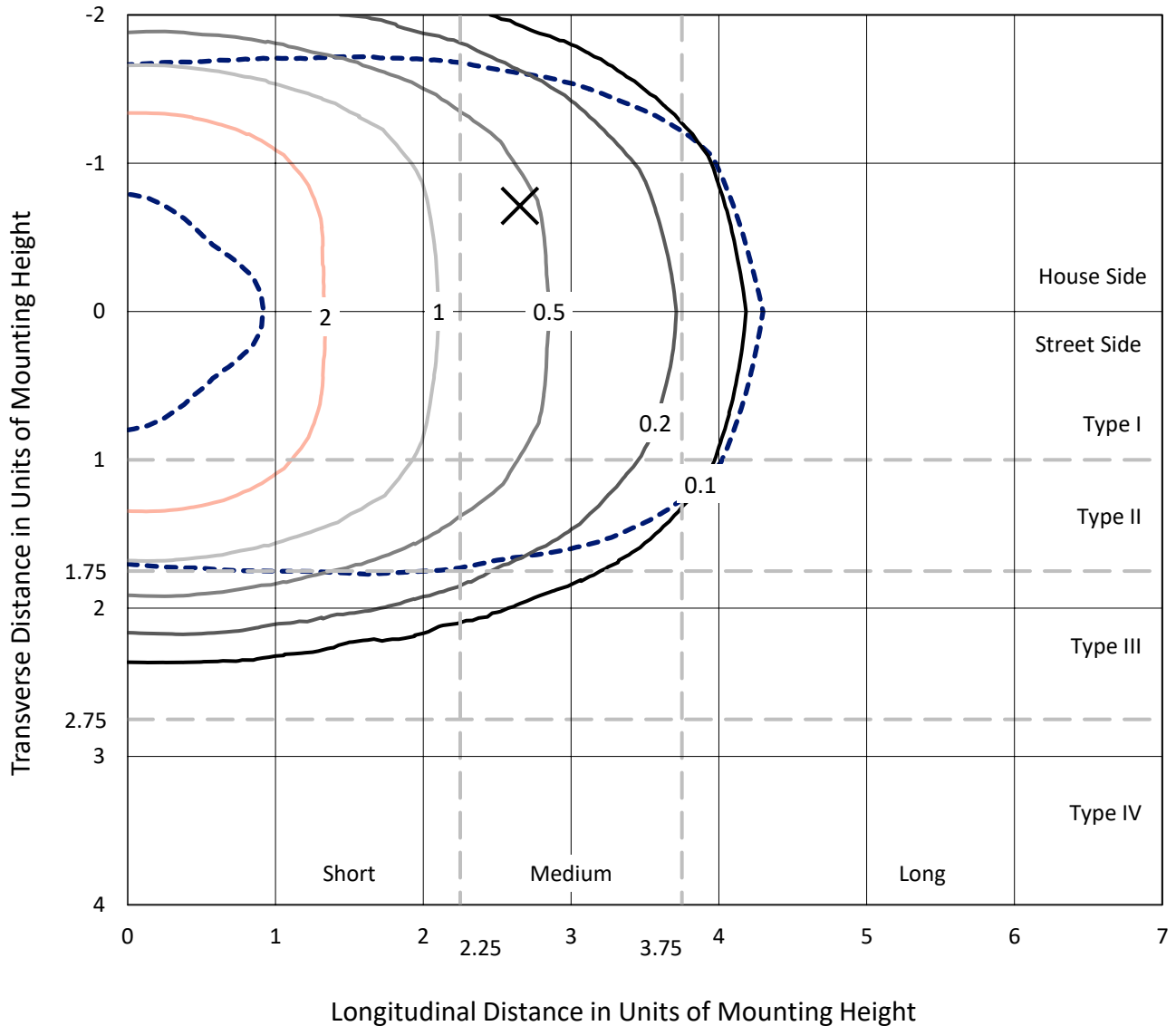
Lumens per Lamp: N/A
Luminaire Lumens: 14813.6 lumens
Efficiency: N/A
Efficacy: 94.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Short
BUG Rating: B3 - U0 - G3

Input Watts (W): 156.2
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

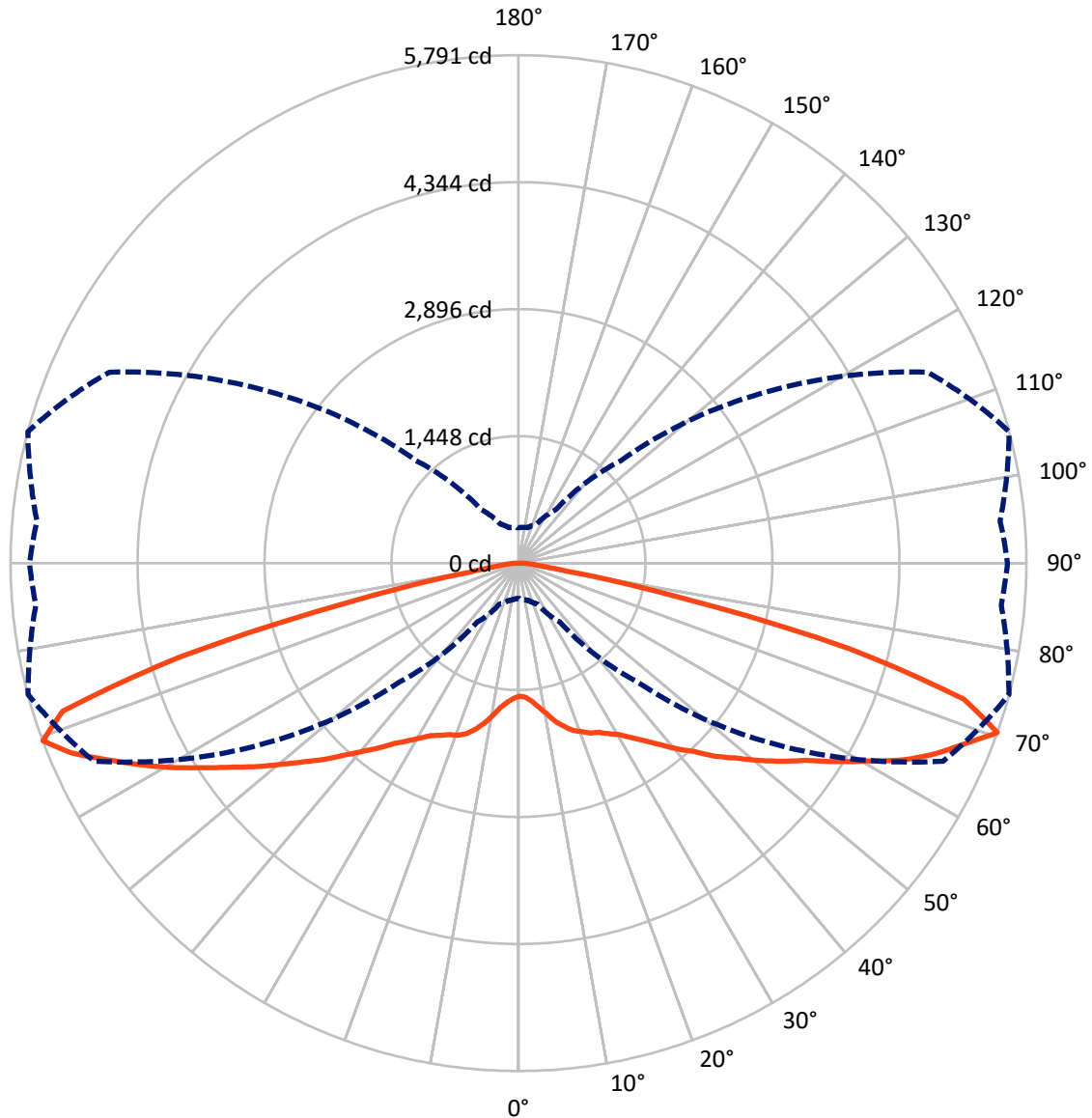
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 105-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7354.1	0.0	7354.1
	% Fixture	49.6	0.0	49.6
Street Side	Lumens	7459.5	0.0	7459.5
	% Fixture	50.4	0.0	50.4
Total	Lumens	14813.6	0.0	14813.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	151.0	1.0
10°-20°	514.1	3.5
20°-30°	995.4	6.7
30°-40°	1683.7	11.4
40°-50°	2686.0	18.1
50°-60°	3676.5	24.8
60°-70°	3465.4	23.4
70°-80°	1526.6	10.3
80°-90°	114.9	0.8
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°	14813.6	100.0
0°-180°	14813.6	100.0

Coefficient of Utilization



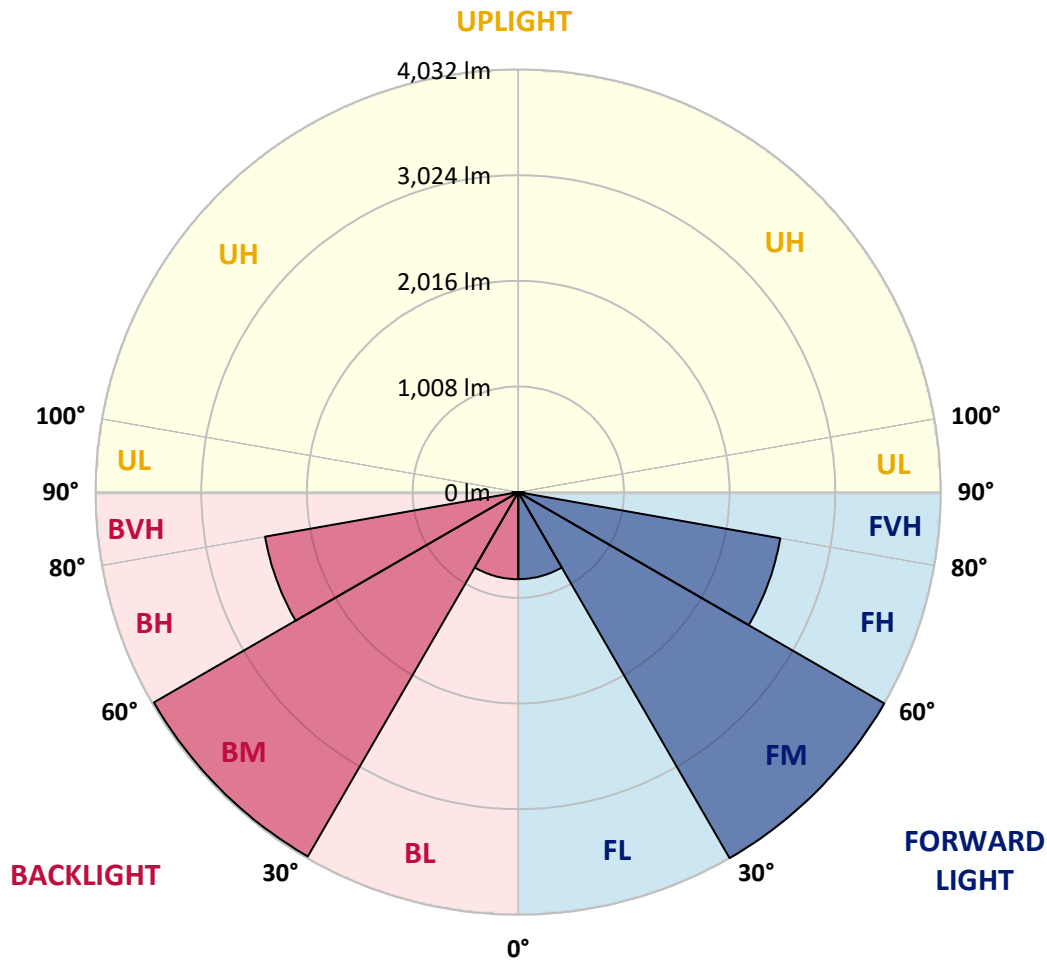
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	829.8	5.6			
FM (30°-60°)	4032.1	27.2			
FH (60°-80°)	2538.9	17.1			G2/5000
FVH (80°-90°)	58.7	0.4			G1/100
BL (0°-30°)	830.7	5.6	B2/1000		
BM (30°-60°)	4014.1	27.1	B3/5000		
BH (60°-80°)	2453.1	16.6	B3/2500		G3/2500
BVH (80°-90°)	56.2	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9
2.5°	1507.3	1507.3	1505.7	1513.7	1521.7	1524.9	1531.3	1532.9	1542.4	1534.5	1550.4
5°	1502.5	1500.9	1513.7	1532.9	1532.9	1553.6	1566.4	1584.0	1588.8	1598.3	1601.5
7.5°	1536.1	1532.9	1526.5	1547.2	1564.8	1596.7	1614.3	1644.6	1655.8	1668.6	1683.0
10°	1556.8	1556.8	1550.4	1587.2	1603.1	1646.2	1684.6	1714.9	1758.0	1772.4	1774.0
12.5°	1560.0	1564.8	1584.0	1631.9	1676.6	1732.5	1761.2	1818.7	1861.8	1888.9	1898.5
15°	1607.9	1598.3	1619.1	1684.6	1750.0	1799.5	1850.6	1892.1	1954.4	1989.5	2011.9
17.5°	1651.0	1641.4	1679.8	1758.0	1825.1	1901.7	1946.4	1991.1	2035.8	2067.8	2069.4
20°	1719.7	1727.7	1761.2	1845.8	1933.6	2000.7	2051.8	2059.8	2082.1	2128.4	2120.5
22.5°	1804.3	1797.9	1868.2	1960.8	2056.6	2112.5	2141.2	2120.5	2109.3	2158.8	2170.0
25°	1888.9	1908.1	1972.0	2058.2	2173.2	2248.2	2256.2	2198.7	2157.2	2174.8	2170.0
27.5°	2018.3	2021.5	2088.5	2190.7	2307.3	2372.7	2368.0	2286.5	2206.7	2208.3	2211.5
30°	2184.3	2168.4	2241.8	2334.4	2449.4	2508.5	2516.5	2399.9	2292.9	2261.0	2269.0
32.5°	2344.0	2363.2	2427.0	2532.4	2617.0	2650.6	2633.0	2529.2	2390.3	2347.2	2352.0
35°	2548.4	2545.2	2633.0	2722.4	2786.3	2792.7	2778.3	2626.6	2495.7	2439.8	2417.5
37.5°	2767.1	2795.9	2853.4	2926.8	2993.9	2997.1	2918.8	2797.5	2636.2	2543.6	2570.7
40°	3011.4	3043.4	3084.9	3191.9	3241.4	3190.3	3110.4	2946.0	2778.3	2696.9	2709.7
42.5°	3227.0	3241.4	3326.0	3452.1	3476.1	3453.7	3335.6	3136.0	2941.2	2851.8	2858.2
45°	3425.0	3444.2	3554.3	3667.7	3723.6	3685.3	3547.9	3357.9	3131.2	3054.6	3024.2
47.5°	3607.0	3645.3	3752.3	3868.9	3955.1	3958.3	3789.1	3559.1	3319.6	3219.0	3217.4
50°	3730.0	3785.9	3891.2	4023.8	4149.9	4199.4	4030.2	3782.7	3525.6	3418.6	3407.4
52.5°	3797.0	3854.5	3959.9	4165.9	4306.4	4383.0	4303.2	3991.8	3766.7	3654.9	3637.4
55°	3715.6	3753.9	3926.4	4215.4	4432.5	4558.7	4506.0	4280.8	4006.2	3915.2	3931.2
57.5°	3369.1	3448.9	3661.3	4022.2	4429.3	4739.1	4734.3	4553.9	4282.4	4196.2	4199.4
60°	2773.5	2840.6	3102.5	3607.0	4250.5	4812.6	4981.8	4818.9	4592.2	4491.6	4488.4
62.5°	1957.6	2042.2	2345.6	2896.5	3723.6	4710.4	5266.0	5152.7	4895.6	4822.1	4849.3
65°	1095.4	1146.5	1427.5	1925.7	2837.4	4148.3	5317.1	5499.2	5203.8	5092.0	5096.8
67.5°	586.0	605.2	736.1	1010.7	1735.7	3198.3	4801.4	5698.7	5537.5	5344.3	5313.9
70°	402.4	408.8	442.3	517.3	820.7	1912.9	3621.4	5342.7	5788.2	5524.7	5575.8
72.5°	340.1	336.9	344.9	352.9	429.5	855.8	2125.3	4111.6	5464.0	5365.0	5345.9
75°	295.4	293.8	297.0	289.0	298.6	376.8	940.5	2562.8	3999.8	4464.5	4536.3
77.5°	244.3	245.9	247.5	239.5	236.3	249.1	378.4	1125.7	1968.8	2173.2	2344.0
80°	185.2	188.4	201.2	193.2	180.4	182.0	223.5	376.8	565.2	512.6	528.5
82.5°	126.1	127.7	154.9	145.3	135.7	122.9	143.7	194.8	220.3	167.7	146.9
85°	89.4	87.8	100.6	92.6	86.2	62.3	86.2	110.2	132.5	83.0	75.0
87.5°	20.8	20.8	41.5	33.5	31.9	25.5	33.5	43.1	57.5	36.7	33.5
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9	1516.9
2.5°	1545.6	1531.3	1531.3	1528.1	1515.3	1512.1	1500.9	1504.1	1496.1	1488.2
5°	1599.9	1580.8	1580.8	1553.6	1528.1	1524.9	1512.1	1512.1	1499.3	1502.5
7.5°	1675.0	1657.4	1628.7	1604.7	1569.6	1555.2	1531.3	1528.1	1524.9	1518.5
10°	1764.4	1742.0	1713.3	1663.8	1635.1	1607.9	1584.0	1550.4	1542.4	1544.0
12.5°	1885.7	1850.6	1788.3	1745.2	1708.5	1673.4	1638.3	1588.8	1577.6	1582.4
15°	1972.0	1927.3	1865.0	1849.0	1799.5	1756.4	1698.9	1643.0	1623.9	1619.1
17.5°	2042.2	2005.5	1968.8	1944.8	1904.9	1852.2	1772.4	1708.5	1665.4	1660.6
20°	2099.7	2051.8	2043.8	2058.2	2008.7	1973.6	1876.2	1797.9	1740.4	1716.5
22.5°	2134.8	2104.5	2126.9	2139.6	2136.4	2077.4	1976.8	1885.7	1813.9	1791.5
25°	2173.2	2138.0	2217.9	2261.0	2272.2	2174.8	2096.5	1976.8	1906.5	1892.1
27.5°	2192.3	2205.1	2297.7	2388.7	2380.7	2305.7	2200.3	2093.3	2037.4	2011.9
30°	2248.2	2269.0	2409.5	2511.7	2513.3	2439.8	2360.0	2238.6	2176.3	2165.2
32.5°	2348.8	2374.3	2524.4	2633.0	2652.2	2596.3	2516.5	2441.4	2377.5	2352.0
35°	2425.4	2490.9	2660.2	2759.2	2810.3	2776.7	2732.0	2653.8	2586.7	2564.4
37.5°	2535.6	2626.6	2789.5	2923.6	2981.1	2977.9	2944.4	2859.8	2803.9	2784.7
40°	2693.7	2784.7	2933.2	3110.4	3217.4	3212.6	3193.5	3128.0	3045.0	3035.4
42.5°	2861.3	2936.4	3129.6	3332.4	3485.7	3469.7	3418.6	3342.0	3284.5	3271.7
45°	3024.2	3140.8	3319.6	3579.9	3694.8	3734.8	3674.1	3543.2	3477.7	3469.7
47.5°	3228.6	3321.2	3544.8	3777.9	3948.7	3955.1	3851.3	3730.0	3610.2	3635.8
50°	3410.6	3533.6	3760.3	4015.8	4220.2	4146.7	4014.2	3862.5	3776.3	3742.7
52.5°	3605.4	3755.5	4019.0	4279.2	4392.6	4319.2	4103.6	3934.4	3803.4	3789.1
55°	3889.6	3967.9	4312.8	4512.4	4549.1	4394.2	4076.5	3837.0	3667.7	3626.2
57.5°	4178.7	4269.7	4571.5	4743.9	4705.6	4352.7	3900.8	3530.4	3308.4	3249.4
60°	4470.9	4582.6	4836.5	4994.6	4796.6	4066.9	3404.2	2926.8	2668.1	2615.5
62.5°	4796.6	4941.9	5168.6	5224.5	4526.7	3501.6	2701.7	2112.5	1850.6	1762.8
65°	5085.6	5234.1	5513.5	5176.6	3953.5	2612.3	1746.8	1207.1	1013.9	943.7
67.5°	5323.5	5491.2	5628.5	4581.0	2894.9	1529.7	910.1	635.5	563.6	538.1
70°	5511.9	5791.4	5149.5	3367.5	1654.2	745.7	491.8	418.3	408.8	402.4
72.5°	5347.5	5310.7	3844.9	1943.2	724.9	410.4	356.1	344.9	343.3	344.9
75°	4373.5	3900.8	2299.3	844.7	364.1	297.0	295.4	290.6	298.6	298.6
77.5°	2122.1	1855.4	961.2	362.5	239.5	233.1	241.1	241.1	241.1	241.1
80°	491.8	544.5	343.3	220.3	174.0	174.0	191.6	193.2	185.2	182.0
82.5°	167.7	223.5	188.4	138.9	115.0	129.3	145.3	148.5	122.9	124.5
85°	83.0	130.9	102.2	79.8	59.1	79.8	94.2	99.0	84.6	81.4
87.5°	38.3	57.5	38.3	27.1	20.8	28.7	27.1	22.4	12.8	12.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)