

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: P477021

Luminaire Tested: **IFLD-S-SA2B-750-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P477021
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-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (32) 5000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

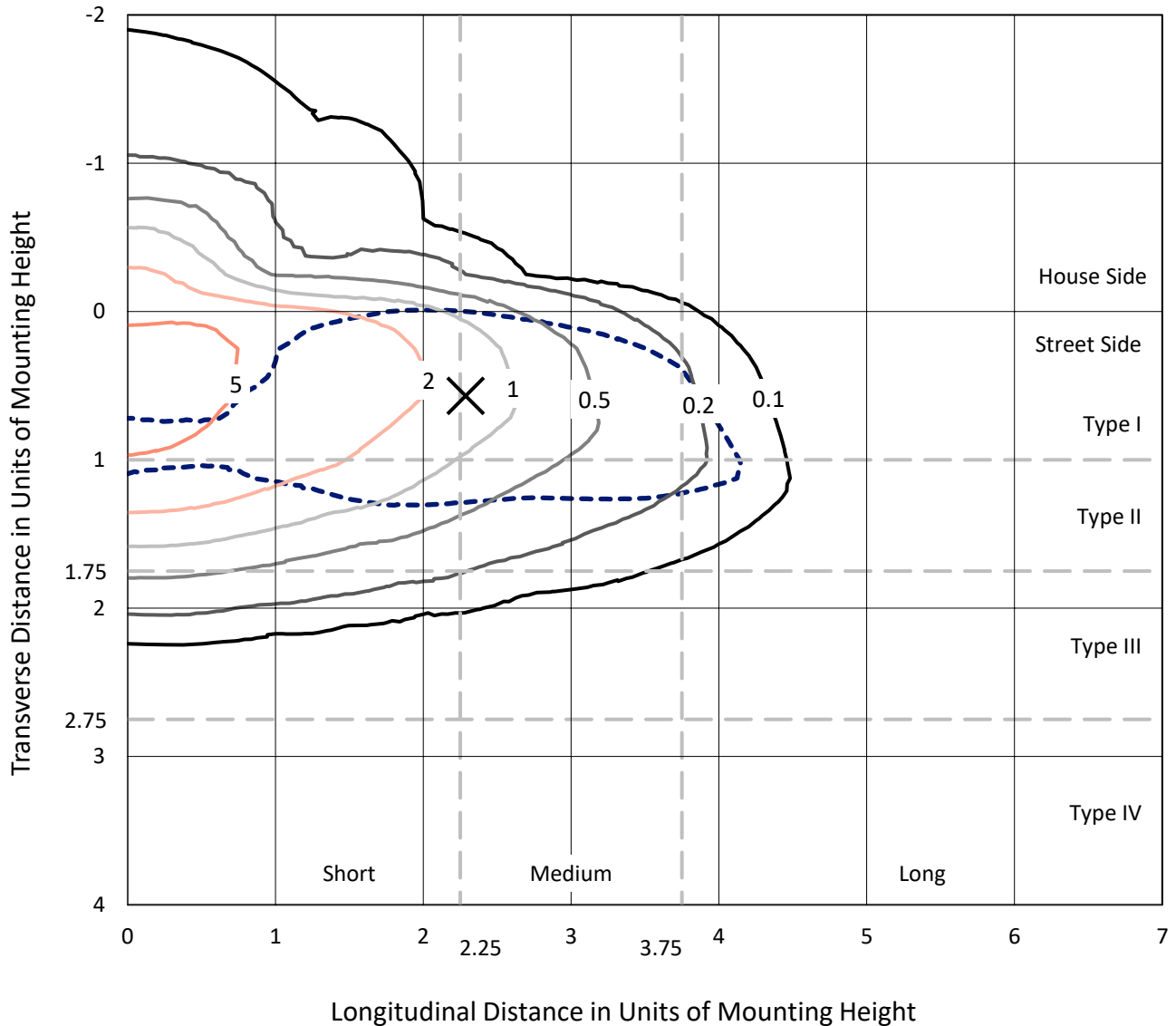
Lumens per Lamp: N/A
Luminaire Lumens: 11744.9 lumens
Efficiency: N/A
Efficacy: 142.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

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

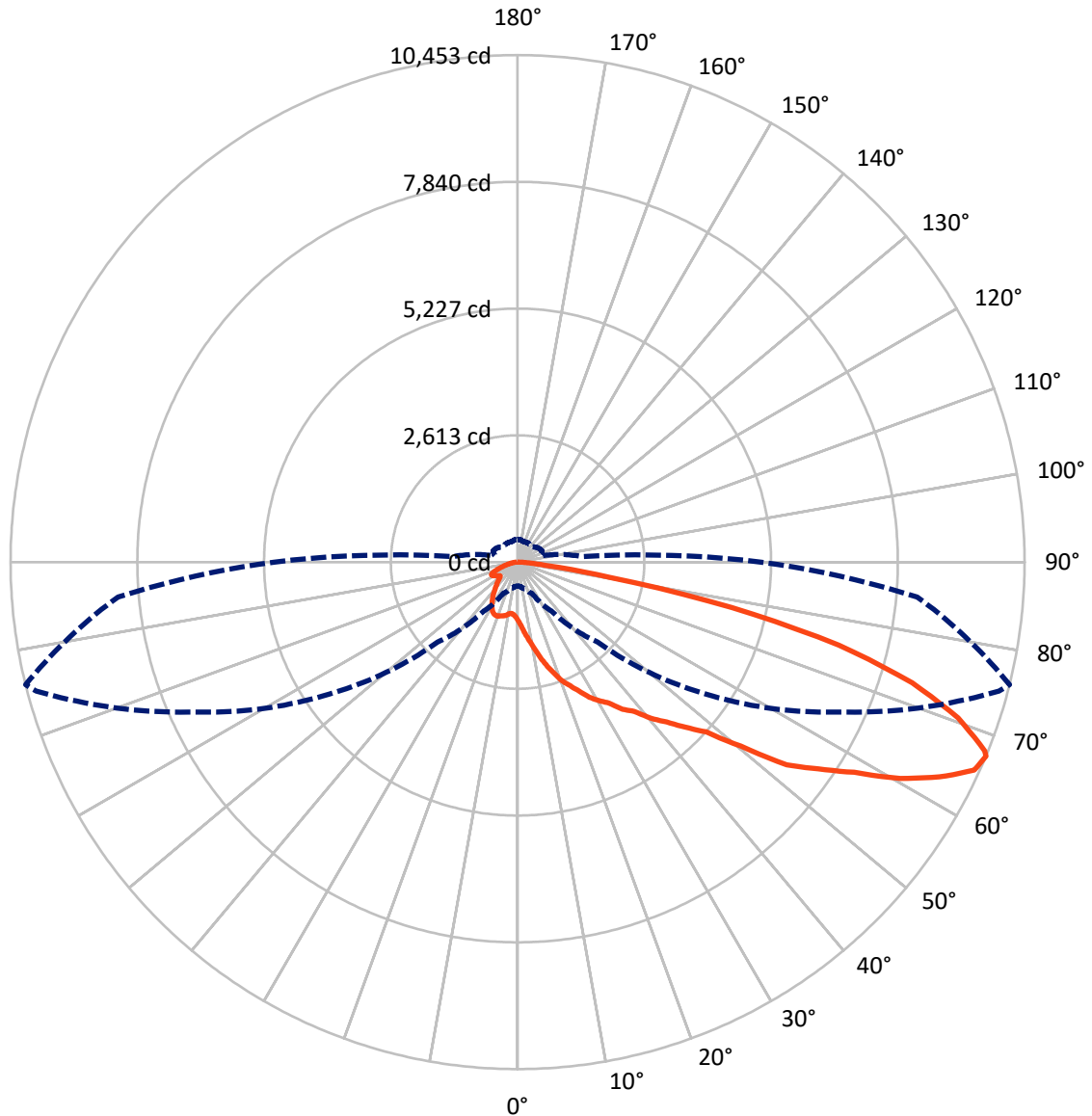
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1670.9	0.0	1670.9
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	10074.0	0.0	10074.0
	% Fixture	85.8	0.0	85.8
Total	Lumens	11744.9	0.0	11744.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.2	1.2
10°-20°	522.2	4.4
20°-30°	970.8	8.3
30°-40°	1538.9	13.1
40°-50°	2128.4	18.1
50°-60°	2618.1	22.3
60°-70°	2436.3	20.7
70°-80°	1222.5	10.4
80°-90°	168.6	1.4
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°	11744.9	100.0
0°-180°	11744.9	100.0

Coefficient of Utilization



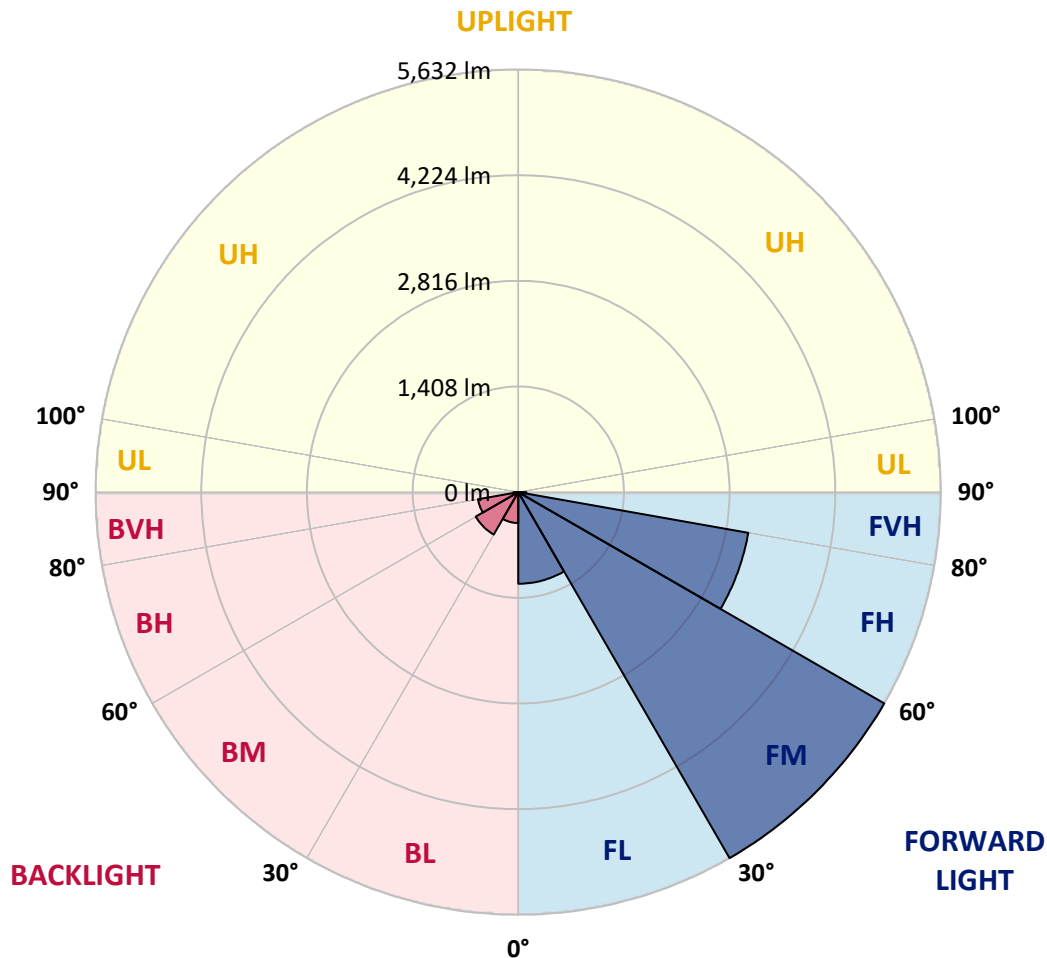
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1220.7	10.4			
FM (30°-60°)	5632.5	48.0			
FH (60°-80°)	3113.5	26.5			G2/5000
FVH (80°-90°)	107.4	0.9			G2/225
BL (0°-30°)	411.5	3.5	B1/500		
BM (30°-60°)	652.9	5.6	B1/1000		
BH (60°-80°)	545.3	4.6	B2/1000		G2/1000
BVH (80°-90°)	61.2	0.5			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9
2.5°	1667.7	1647.6	1627.5	1584.7	1570.0	1529.8	1456.2	1374.6	1307.6	1298.3	1251.4
5°	2069.2	2039.8	2033.1	2009.0	1932.7	1855.1	1734.6	1603.4	1440.1	1452.2	1291.6
7.5°	2370.4	2353.0	2316.8	2294.1	2248.6	2145.5	2021.0	1847.0	1639.6	1599.4	1381.3
10°	2597.9	2573.8	2572.5	2552.4	2528.3	2422.6	2327.5	2093.3	1827.0	1772.1	1491.0
12.5°	2713.0	2709.0	2779.9	2779.9	2770.5	2726.4	2563.1	2348.9	2005.0	1986.2	1618.2
15°	2837.5	2804.0	2865.6	2912.4	2936.5	2959.3	2824.1	2597.9	2232.5	2196.4	1754.7
17.5°	2837.5	2834.8	2896.4	2974.0	3099.8	3129.2	3055.6	2826.8	2421.2	2394.4	1904.6
20°	2789.3	2828.1	2870.9	2975.3	3111.8	3231.0	3252.4	3061.0	2630.0	2608.6	2074.6
22.5°	3014.1	2976.7	3020.8	3061.0	3166.7	3347.4	3406.3	3267.1	2849.5	2767.9	2228.5
25°	3391.6	3366.1	3334.0	3275.1	3319.3	3398.3	3487.9	3419.7	3036.9	2945.9	2377.0
27.5°	3759.6	3761.0	3691.4	3562.9	3467.9	3483.9	3589.7	3553.5	3194.8	3154.7	2478.8
30°	4283.0	4250.8	4173.2	3999.2	3813.2	3660.6	3643.2	3678.0	3395.6	3318.0	2624.7
32.5°	4675.1	4681.8	4572.1	4321.8	4067.5	3943.0	3790.4	3805.2	3522.7	3465.2	2741.1
35°	4992.3	4984.3	4906.7	4699.2	4398.1	4248.2	4042.1	3957.7	3818.5	3727.5	2919.1
37.5°	5335.0	5269.4	5143.6	4909.4	4716.6	4509.2	4308.4	4118.3	4015.3	3905.5	3071.7
40°	5472.8	5472.8	5304.2	5197.1	4968.2	4811.6	4681.8	4329.8	4254.9	4233.4	3267.1
42.5°	5375.1	5435.4	5365.8	5244.0	5150.3	4952.2	4917.4	4549.3	4550.7	4507.8	3501.3
45°	5365.8	5282.8	5225.2	5256.0	5211.8	5201.1	5289.5	4853.1	4861.2	4855.8	3815.9
47.5°	5096.7	5059.3	5144.9	5195.8	5231.9	5397.9	5652.2	5215.9	5273.4	5233.3	4178.6
50°	4829.0	4822.4	4875.9	5060.6	5217.2	5490.2	5997.5	5775.3	5964.0	5961.4	4835.7
52.5°	4095.6	4166.5	4376.7	4767.5	5154.3	5616.0	6258.5	6490.0	6850.1	6947.8	5380.5
55°	3394.3	3356.8	3667.3	4234.8	4879.9	5665.6	6550.3	6919.7	7449.7	7520.6	5939.9
57.5°	2640.7	2710.3	2955.2	3500.0	4312.4	5420.6	6764.4	7344.0	8126.9	8181.8	6589.1
60°	1970.2	1979.5	2248.6	2687.6	3557.5	4867.9	6834.0	7778.9	8903.2	9059.8	7269.0
62.5°	1239.4	1295.6	1500.4	1932.7	2678.2	4094.3	6522.2	8042.6	9717.0	9758.5	7954.3
65°	667.9	704.0	857.9	1129.6	1871.1	3097.1	5695.0	7884.7	10099.8	10346.1	8259.4
67°	493.9	500.6	571.5	721.4	1251.4	2331.5	4748.7	7313.2	10273.8	10453.1	8271.5
67.5°	463.1	472.5	528.7	647.8	1109.6	2146.8	4501.1	7109.7	10196.1	10388.9	8177.8
70°	396.2	398.9	412.2	445.7	622.4	1291.6	3065.0	5826.2	9450.6	9635.3	7520.6
72.5°	352.0	354.7	360.0	366.7	421.6	746.8	1864.4	4483.7	8213.9	8508.4	6488.7
75°	309.2	318.5	321.2	315.9	358.7	485.8	991.8	3295.2	6700.2	6843.4	5045.9
77.5°	262.3	266.3	271.7	277.1	319.9	362.7	476.5	2224.5	4598.8	4511.8	2729.1
80°	220.8	222.2	226.2	230.2	277.1	277.1	270.4	1201.9	2009.0	1920.6	922.2
82.5°	157.9	167.3	176.7	187.4	230.2	186.0	176.7	535.4	635.8	605.0	311.9
85°	61.6	75.0	116.4	128.5	145.9	100.4	117.8	231.5	265.0	262.3	116.4
87.5°	10.7	12.0	32.1	49.5	53.5	34.8	56.2	83.0	99.0	107.1	42.8
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°	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9	1201.9
2.5°	1212.6	1171.1	1121.6	1072.1	1040.0	989.1	985.1	954.3	950.3	939.6	944.9
5°	1222.0	1172.5	1072.1	993.1	957.0	927.5	934.2	920.8	916.8	910.1	899.4
7.5°	1295.6	1197.9	1048.0	979.7	953.0	939.6	939.6	923.5	911.5	919.5	927.5
10°	1343.8	1209.9	1066.7	998.5	977.1	947.6	958.3	938.2	944.9	928.9	928.9
12.5°	1421.4	1278.2	1105.5	1026.6	991.8	965.0	975.7	953.0	947.6	948.9	944.9
15°	1525.8	1323.7	1122.9	1042.6	1018.5	985.1	977.1	957.0	936.9	930.2	938.2
17.5°	1623.5	1379.9	1135.0	1052.0	1013.2	975.7	966.3	940.9	934.2	914.1	898.1
20°	1740.0	1446.8	1151.0	1060.0	993.1	955.6	931.5	906.1	883.4	871.3	876.7
22.5°	1817.6	1481.6	1159.1	1044.0	963.7	928.9	878.0	860.6	828.5	815.1	804.4
25°	1944.7	1524.5	1139.0	999.8	911.5	855.3	809.7	785.7	762.9	745.5	740.2
27.5°	1976.9	1556.6	1092.2	924.9	828.5	769.6	730.8	701.3	686.6	659.8	654.5
30°	2070.5	1524.5	1022.6	833.8	749.5	689.3	650.5	629.1	594.3	587.6	572.8
32.5°	2130.8	1533.8	934.2	745.5	658.5	605.0	579.5	558.1	548.8	516.6	508.6
35°	2231.2	1501.7	844.5	663.9	583.6	542.1	520.6	514.0	483.2	468.4	455.1
37.5°	2295.4	1483.0	754.9	571.5	501.9	484.5	491.2	463.1	425.6	397.5	388.1
40°	2407.8	1476.3	653.2	495.2	445.7	441.7	463.1	409.6	341.3	317.2	303.8
42.5°	2569.8	1430.8	574.2	427.0	401.5	418.9	422.9	341.3	302.5	282.4	273.0
45°	2725.0	1440.1	496.6	353.3	349.3	374.8	365.4	289.1	266.3	251.6	259.7
47.5°	3023.5	1487.0	420.3	294.5	314.5	338.6	283.7	258.3	236.9	226.2	227.5
50°	3485.3	1532.5	353.3	269.0	297.1	306.5	243.6	234.2	232.9	211.5	210.1
52.5°	3762.3	1515.1	341.3	301.1	318.5	306.5	265.0	258.3	247.6	238.2	227.5
55°	4202.7	1566.0	366.7	352.0	361.4	294.5	297.1	294.5	286.4	262.3	269.0
57.5°	4553.3	1599.4	400.2	393.5	388.1	306.5	310.5	311.9	306.5	295.8	305.2
60°	5035.2	1666.3	435.0	436.3	437.7	333.3	340.0	348.0	346.7	342.6	345.3
62.5°	5331.0	1635.6	473.8	495.2	488.5	388.1	386.8	392.2	392.2	398.9	402.9
65°	5286.8	1521.8	493.9	547.4	512.6	428.3	428.3	431.0	432.3	445.7	447.0
67°	5021.8	1318.4	483.2	555.4	512.6	444.4	444.4	447.0	437.7	472.5	461.8
67.5°	4898.6	1258.1	473.8	548.8	508.6	443.0	443.0	444.4	436.3	469.8	459.1
70°	4260.2	934.2	408.2	485.8	471.1	431.0	431.0	422.9	416.3	460.4	451.1
72.5°	3636.5	678.6	327.9	413.6	425.6	414.9	417.6	397.5	378.8	409.6	401.5
75°	2785.3	499.2	255.6	318.5	360.0	388.1	405.5	354.7	330.6	338.6	323.9
77.5°	1553.9	325.2	202.1	235.6	274.4	361.4	389.5	319.9	270.4	261.0	261.0
80°	527.3	190.1	148.6	175.3	188.7	319.9	364.1	259.7	212.8	203.4	196.7
82.5°	199.4	116.4	101.7	120.5	120.5	253.0	297.1	199.4	160.6	207.5	211.5
85°	91.0	69.6	66.9	69.6	69.6	155.3	210.1	129.8	144.6	124.5	109.8
87.5°	36.1	33.5	30.8	29.4	24.1	26.8	72.3	34.8	65.6	17.4	16.1
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)