

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: P476869

Luminaire Tested: **IFLD-S-SA3A-727-U-T2R**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P476869
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA3A-727-U-T2R
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ T2R distribution lens
Light Source: (48) 2700K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

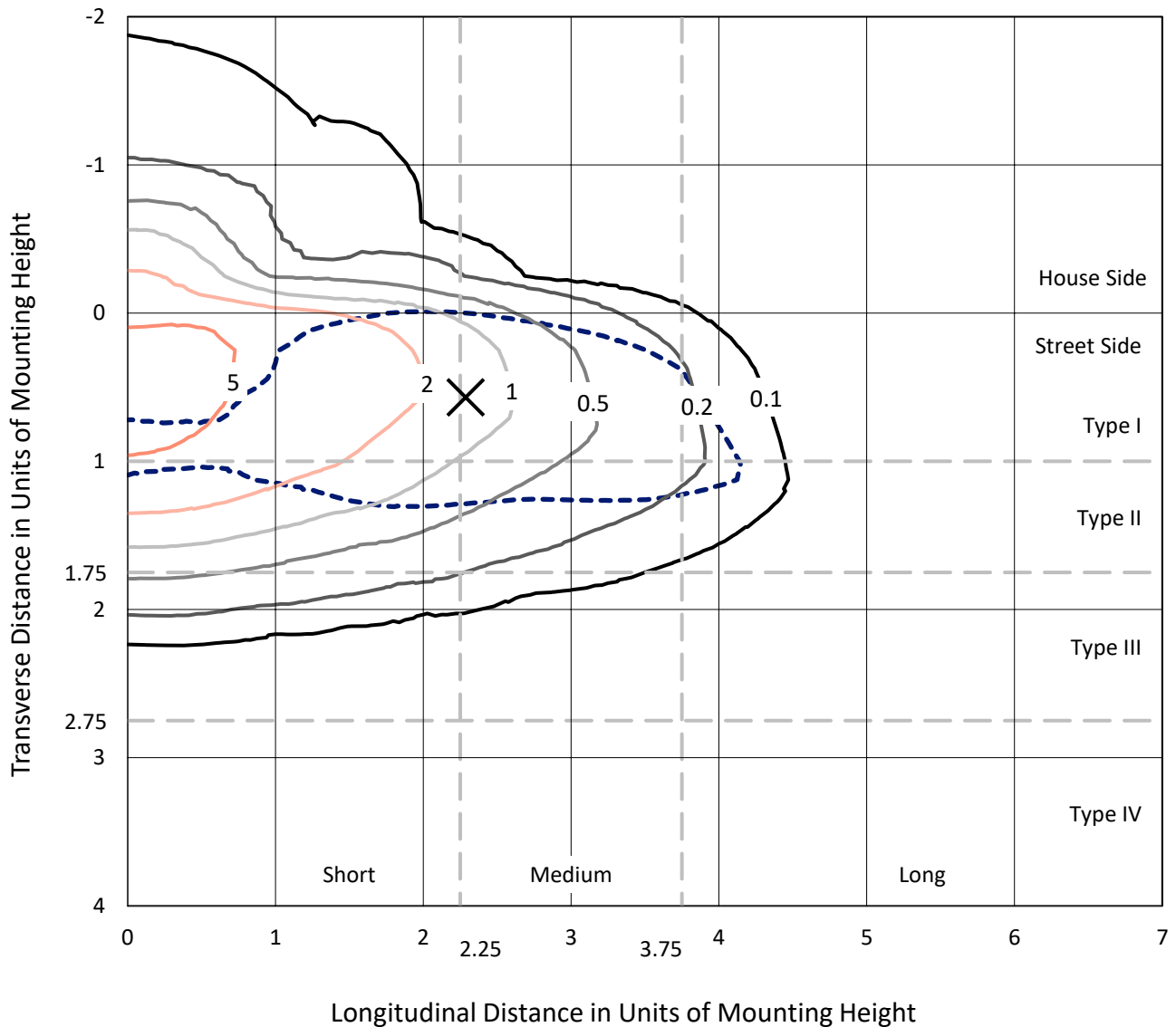
Lumens per Lamp: N/A
Luminaire Lumens: 11570.9 lumens
Efficiency: N/A
Efficacy: 122.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G2

Input Watts (W): 94.8
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

REPORT NUMBER: P476869
 CATALOG NUMBER: IFLD-S-SA3A-727-U-T2R

Iso-Footcandle Lines of Horizontal Illumination

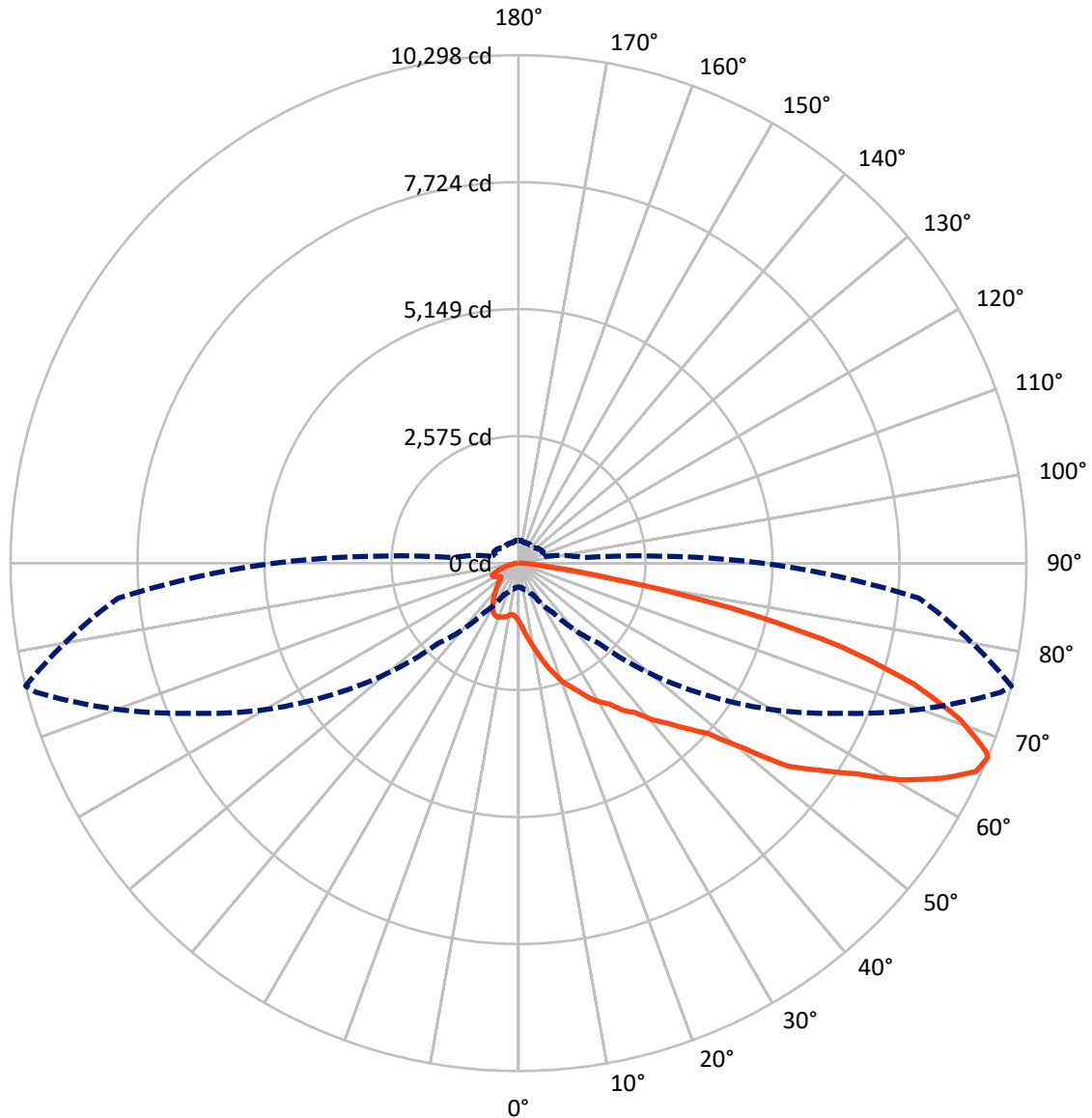
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Medium - N/A

REPORT NUMBER: P476869
CATALOG NUMBER: IFLD-S-SA3A-727-U-T2R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P476869

CATALOG NUMBER: IFLD-S-SA3A-727-U-T2R

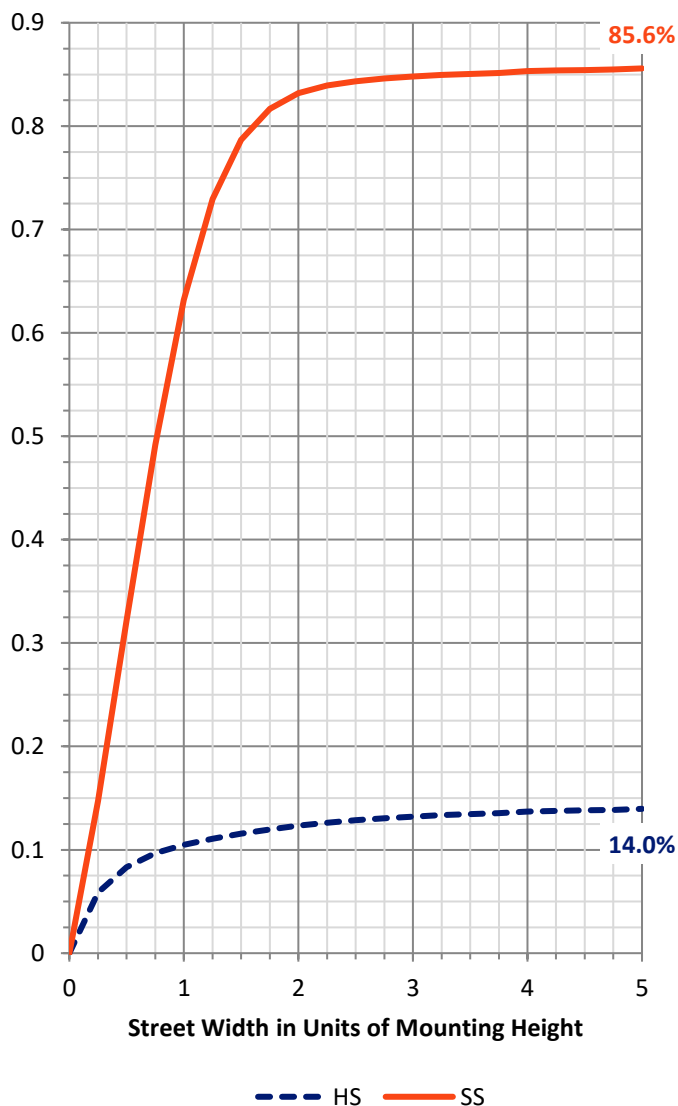
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1646.1	0.0	1646.1
	% Fixture	14.2	0.0	14.2
Street Side	Lumens	9924.8	0.0	9924.8
	% Fixture	85.8	0.0	85.8
Total	Lumens	11570.9	0.0	11570.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.2	1.2
10°-20°	514.4	4.4
20°-30°	956.4	8.3
30°-40°	1516.1	13.1
40°-50°	2096.9	18.1
50°-60°	2579.3	22.3
60°-70°	2400.2	20.7
70°-80°	1204.4	10.4
80°-90°	166.1	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°	11570.9	100.0
0°-180°	11570.9	100.0

Coefficient of Utilization



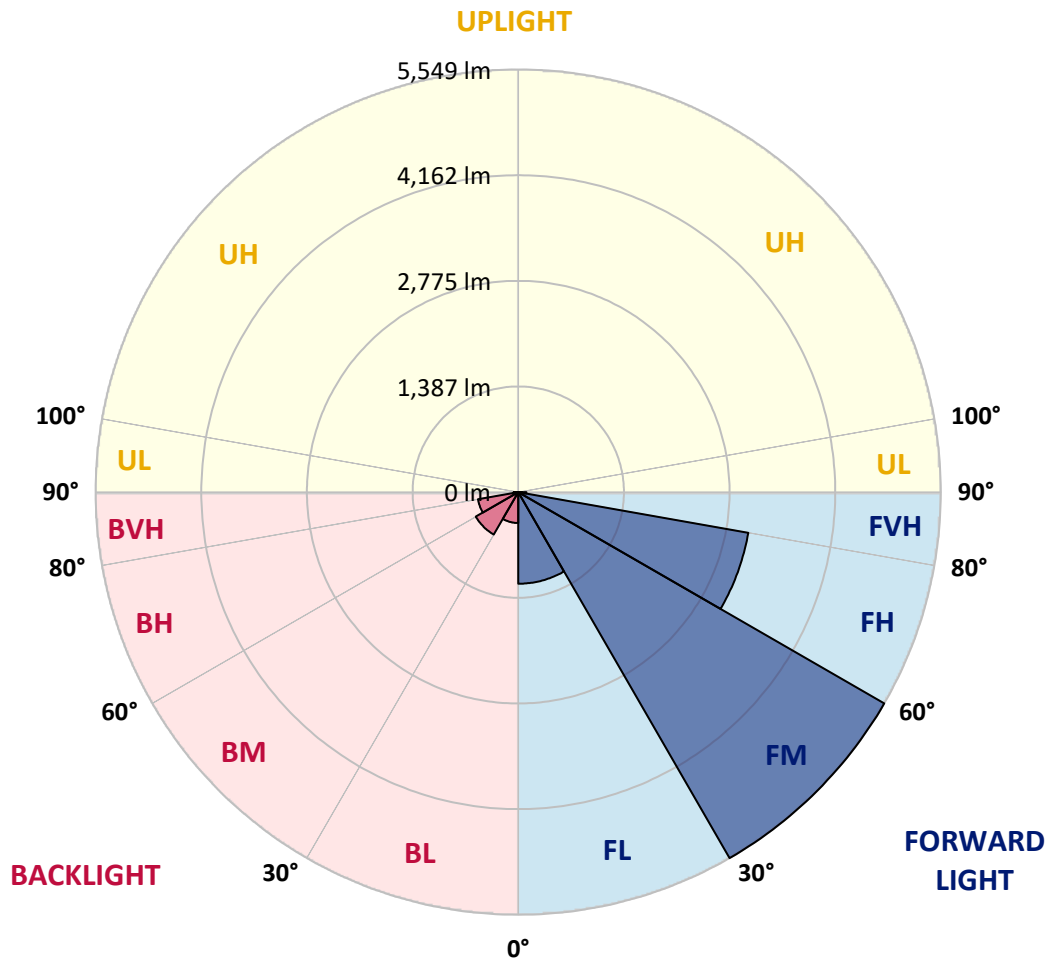
REPORT NUMBER: P476869
 CATALOG NUMBER: IFLD-S-SA3A-727-U-T2R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1202.6	10.4			
FM (30°-60°)	5549.0	48.0			
FH (60°-80°)	3067.4	26.5			G2/5000
FVH (80°-90°)	105.8	0.9			G2/225
BL (0°-30°)	405.4	3.5	B1/500		
BM (30°-60°)	643.3	5.6	B1/1000		
BH (60°-80°)	537.2	4.6	B2/1000		G2/1000
BVH (80°-90°)	60.3	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





REPORT NUMBER: P476869

CATALOG NUMBER: IFLD-S-SA3A-727-U-T2R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1184.1	1184.1	1184.1	1184.1	1184.1	1184.1	1184.1	1184.1	1184.1	1184.1	1184.1
2.5°	1643.0	1623.2	1603.4	1561.2	1546.7	1507.2	1434.6	1354.2	1288.3	1279.0	1232.9
5°	2038.6	2009.6	2003.0	1979.2	1904.1	1827.6	1708.9	1579.7	1418.8	1430.7	1272.5
7.5°	2335.2	2318.1	2282.5	2260.1	2215.3	2113.7	1991.1	1819.7	1615.3	1575.7	1360.8
10°	2559.4	2535.7	2534.4	2514.6	2490.8	2386.7	2293.1	2062.3	1799.9	1745.8	1468.9
12.5°	2672.8	2668.9	2738.7	2738.7	2729.5	2686.0	2525.1	2314.2	1975.3	1956.8	1594.2
15°	2795.4	2762.5	2823.1	2869.3	2893.0	2915.4	2782.3	2559.4	2199.4	2163.8	1728.7
17.5°	2795.4	2792.8	2853.5	2929.9	3053.9	3082.9	3010.4	2784.9	2385.4	2359.0	1876.4
20°	2748.0	2786.2	2828.4	2931.3	3065.8	3183.1	3204.2	3015.6	2591.1	2570.0	2043.8
22.5°	2969.5	2932.6	2976.1	3015.6	3119.8	3297.8	3355.8	3218.7	2807.3	2726.9	2195.5
25°	3341.3	3316.3	3284.6	3226.6	3270.1	3347.9	3436.3	3369.0	2991.9	2902.2	2341.8
27.5°	3704.0	3705.3	3636.7	3510.1	3416.5	3432.3	3536.5	3500.9	3147.5	3108.0	2442.1
30°	4219.5	4187.9	4111.4	3940.0	3756.7	3606.4	3589.2	3623.5	3345.3	3268.8	2585.8
32.5°	4605.9	4612.5	4504.4	4257.8	4007.2	3884.6	3734.3	3748.8	3470.6	3413.9	2700.5
35°	4918.4	4910.5	4834.0	4629.6	4332.9	4185.3	3982.2	3899.1	3762.0	3672.3	2875.9
37.5°	5256.0	5191.3	5067.4	4836.6	4646.8	4442.4	4244.6	4057.3	3955.8	3847.7	3026.2
40°	5391.8	5391.8	5225.6	5120.1	4894.7	4740.4	4612.5	4265.7	4191.8	4170.7	3218.7
42.5°	5295.5	5354.9	5286.3	5166.3	5074.0	4878.8	4844.6	4481.9	4483.3	4441.1	3449.5
45°	5286.3	5204.5	5147.8	5178.2	5134.6	5124.1	5211.1	4781.3	4789.2	4783.9	3759.3
47.5°	5021.2	4984.3	5068.7	5118.8	5154.4	5317.9	5568.5	5138.6	5195.3	5155.7	4116.7
50°	4757.5	4750.9	4803.7	4985.6	5139.9	5408.9	5908.7	5689.8	5875.7	5873.1	4764.1
52.5°	4034.9	4104.8	4311.8	4696.9	5077.9	5532.9	6165.8	6393.9	6748.6	6844.9	5300.8
55°	3344.0	3307.1	3613.0	4172.1	4807.6	5581.7	6453.3	6817.2	7339.4	7409.2	5852.0
57.5°	2601.6	2670.2	2911.5	3448.2	4248.5	5340.3	6664.2	7235.2	8006.6	8060.6	6491.5
60°	1941.0	1950.2	2215.3	2647.8	3504.9	4795.8	6732.8	7663.7	8771.4	8925.6	7161.3
62.5°	1221.0	1276.4	1478.2	1904.1	2638.5	4033.6	6425.6	7923.5	9573.1	9613.9	7836.5
65°	658.0	693.6	845.2	1112.9	1843.4	3051.3	5610.7	7767.9	9950.2	10192.8	8137.1
67°	486.6	493.2	563.0	710.7	1232.9	2297.0	4678.4	7204.9	10121.6	10298.3	8149.0
67.5°	456.2	465.5	520.8	638.2	1093.1	2115.0	4434.5	7004.4	10045.1	10235.0	8056.7
70°	390.3	392.9	406.1	439.1	613.2	1272.5	3019.6	5739.9	9310.7	9492.6	7409.2
72.5°	346.8	349.4	354.7	361.3	415.4	735.8	1836.8	4417.3	8092.3	8382.4	6392.6
75°	304.6	313.8	316.5	311.2	353.4	478.7	977.1	3246.4	6600.9	6742.0	4971.1
77.5°	258.4	262.4	267.7	273.0	315.1	357.3	469.4	2191.5	4530.7	4445.0	2688.6
80°	217.6	218.9	222.8	226.8	273.0	273.0	266.4	1184.1	1979.2	1892.2	908.5
82.5°	155.6	164.8	174.1	184.6	226.8	183.3	174.1	527.4	626.3	596.0	307.2
85°	60.7	73.8	114.7	126.6	143.7	98.9	116.0	228.1	261.1	258.4	114.7
87.5°	10.5	11.9	31.6	48.8	52.7	34.3	55.4	81.8	97.6	105.5	42.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P476869
 CATALOG NUMBER: IFLD-S-SA3A-727-U-T2R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1184.1	1184.1	1184.1	1184.1	1184.1	1184.1	1184.1	1184.1	1184.1	1184.1	1184.1
2.5°	1194.7	1153.8	1105.0	1056.2	1024.6	974.4	970.5	940.2	936.2	925.7	930.9
5°	1203.9	1155.1	1056.2	978.4	942.8	913.8	920.4	907.2	903.2	896.7	886.1
7.5°	1276.4	1180.2	1032.5	965.2	938.8	925.7	925.7	909.8	898.0	905.9	913.8
10°	1323.9	1192.0	1050.9	983.7	962.6	933.6	944.1	924.3	930.9	915.1	915.1
12.5°	1400.4	1259.3	1089.2	1011.4	977.1	950.7	961.3	938.8	933.6	934.9	930.9
15°	1503.2	1304.1	1106.3	1027.2	1003.5	970.5	962.6	942.8	923.0	916.4	924.3
17.5°	1599.5	1359.5	1118.2	1036.4	998.2	961.3	952.0	927.0	920.4	900.6	884.8
20°	1714.2	1425.4	1134.0	1044.3	978.4	941.5	917.7	892.7	870.3	858.4	863.7
22.5°	1790.7	1459.7	1141.9	1028.5	949.4	915.1	865.0	847.9	816.2	803.0	792.5
25°	1915.9	1501.9	1122.1	985.0	898.0	842.6	797.8	774.0	751.6	734.5	729.2
27.5°	1947.6	1533.5	1076.0	911.2	816.2	758.2	720.0	690.9	676.4	650.1	644.8
30°	2039.9	1501.9	1007.4	821.5	738.4	679.1	640.8	619.7	585.5	578.9	564.4
32.5°	2099.2	1511.1	920.4	734.5	648.8	596.0	571.0	549.9	540.6	509.0	501.1
35°	2198.1	1479.5	832.0	654.0	574.9	534.0	512.9	506.3	476.0	461.5	448.3
37.5°	2261.4	1461.0	743.7	563.0	494.5	477.3	483.9	456.2	419.3	391.6	382.4
40°	2372.2	1454.4	643.5	487.9	439.1	435.1	456.2	403.5	336.2	312.5	299.3
42.5°	2531.7	1409.6	565.7	420.6	395.6	412.7	416.7	336.2	298.0	278.2	269.0
45°	2684.7	1418.8	489.2	348.1	344.2	369.2	360.0	284.8	262.4	247.9	255.8
47.5°	2978.7	1465.0	414.0	290.1	309.9	333.6	279.5	254.5	233.4	222.8	224.2
50°	3433.6	1509.8	348.1	265.0	292.7	302.0	240.0	230.8	229.4	208.3	207.0
52.5°	3706.6	1492.7	336.2	296.7	313.8	302.0	261.1	254.5	243.9	234.7	224.2
55°	4140.4	1542.8	361.3	346.8	356.0	290.1	292.7	290.1	282.2	258.4	265.0
57.5°	4485.9	1575.7	394.3	387.7	382.4	302.0	305.9	307.2	302.0	291.4	300.6
60°	4960.6	1641.7	428.5	429.9	431.2	328.3	334.9	342.8	341.5	337.6	340.2
62.5°	5252.0	1611.3	466.8	487.9	481.3	382.4	381.1	386.4	386.4	392.9	396.9
65°	5208.5	1499.3	486.6	539.3	505.0	422.0	422.0	424.6	425.9	439.1	440.4
67°	4947.4	1298.8	476.0	547.2	505.0	437.8	437.8	440.4	431.2	465.5	454.9
67.5°	4826.1	1239.5	466.8	540.6	501.1	436.5	436.5	437.8	429.9	462.8	452.3
70°	4197.1	920.4	402.2	478.7	464.1	424.6	424.6	416.7	410.1	453.6	444.4
72.5°	3582.6	668.5	323.1	407.4	419.3	408.8	411.4	391.6	373.2	403.5	395.6
75°	2744.0	491.8	251.9	313.8	354.7	382.4	399.5	349.4	325.7	333.6	319.1
77.5°	1530.9	320.4	199.1	232.1	270.3	356.0	383.7	315.1	266.4	257.1	257.1
80°	519.5	187.2	146.4	172.7	185.9	315.1	358.7	255.8	209.7	200.4	193.8
82.5°	196.5	114.7	100.2	118.7	118.7	249.2	292.7	196.5	158.2	204.4	208.3
85°	89.7	68.6	65.9	68.6	68.6	153.0	207.0	127.9	142.4	122.6	108.1
87.5°	35.6	33.0	30.3	29.0	23.7	26.4	71.2	34.3	64.6	17.1	15.8
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)