

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: P399382

Luminaire Tested: **ARCH-L-PA3-130-827-U-T2R**

Issue Date: 5/19/2020

Test Information

Test Method: LM-79-08
Report Number: P399382
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-568-9)
Test Lab: INNOVATION CENTER
Issue Date: 5/19/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-PA3-130-827-U-T2R
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 80 CRI, 2700K, 575mA LIGHT ENGINES WITH 24 LEDS AND TYPE II ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15638 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B2 - U0 - G3

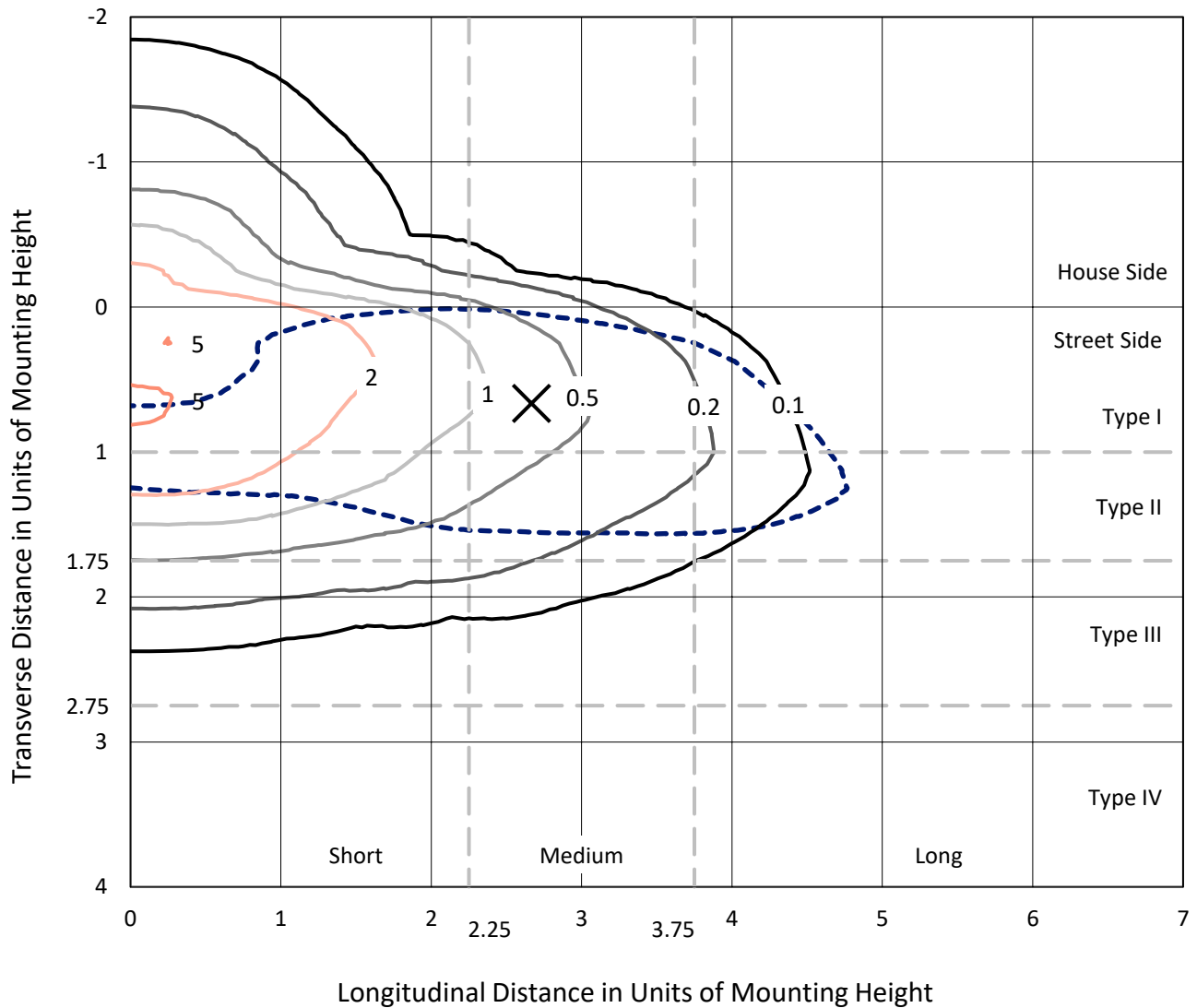
Input Watts (W): 133
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

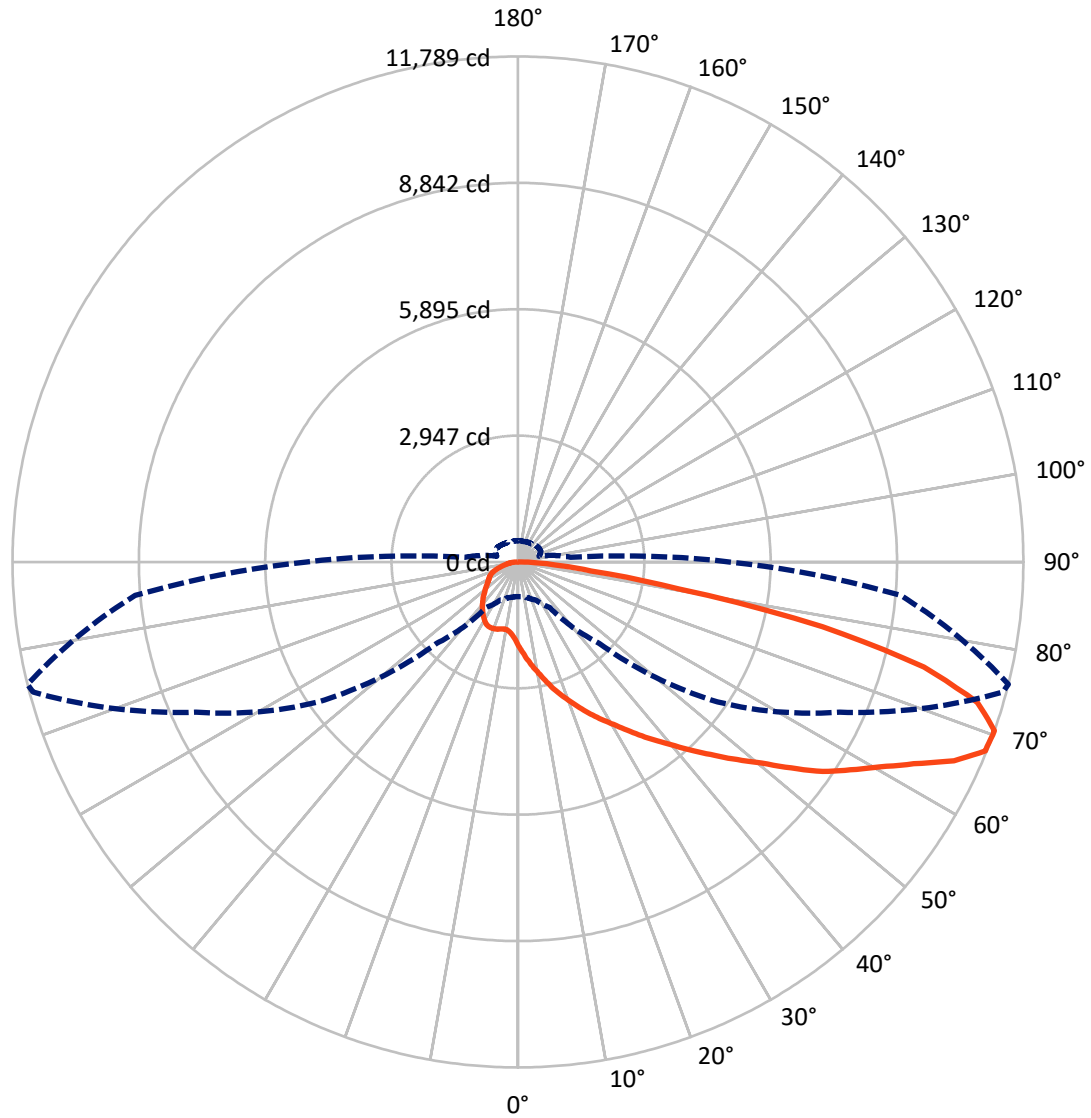
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 76-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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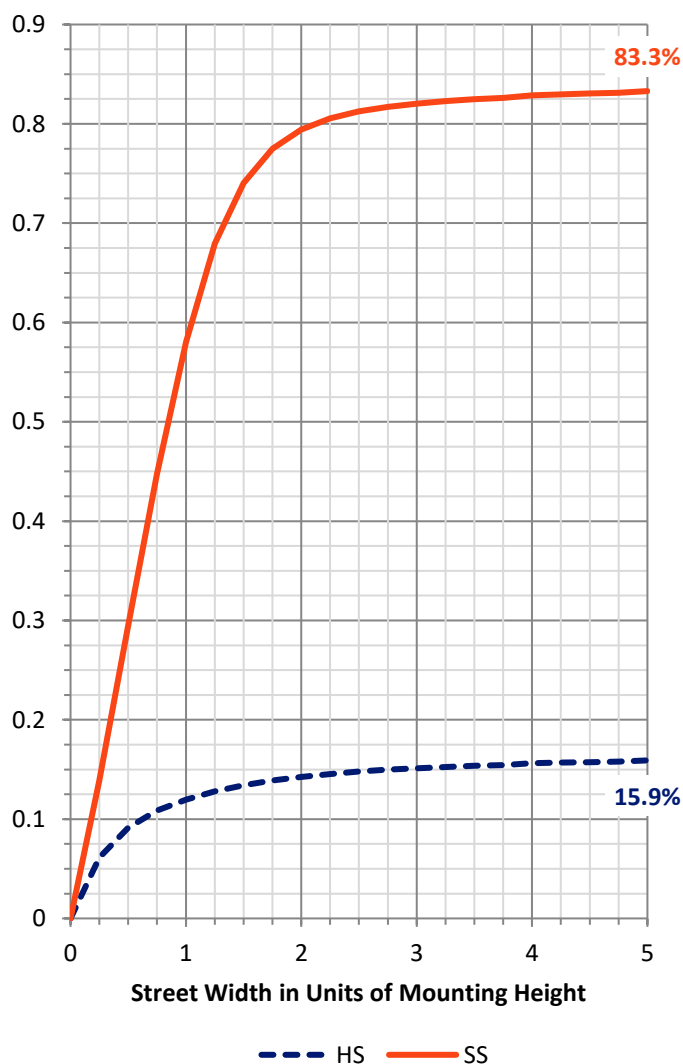
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2553.1	0.0	2553.1
	% Fixture	16.3	0.0	16.3
Street Side	Lumens	13084.9	0.0	13084.9
	% Fixture	83.7	0.0	83.7
Total	Lumens	15638.0	0.0	15638.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	203.2	1.3
10°-20°	690.6	4.4
20°-30°	1235.6	7.9
30°-40°	1998.7	12.8
40°-50°	2891.4	18.5
50°-60°	3309.4	21.2
60°-70°	3044.3	19.5
70°-80°	1882.5	12.0
80°-90°	382.3	2.4
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°	15638.0	100.0
0°-180°	15638.0	100.0

Coefficient of Utilization



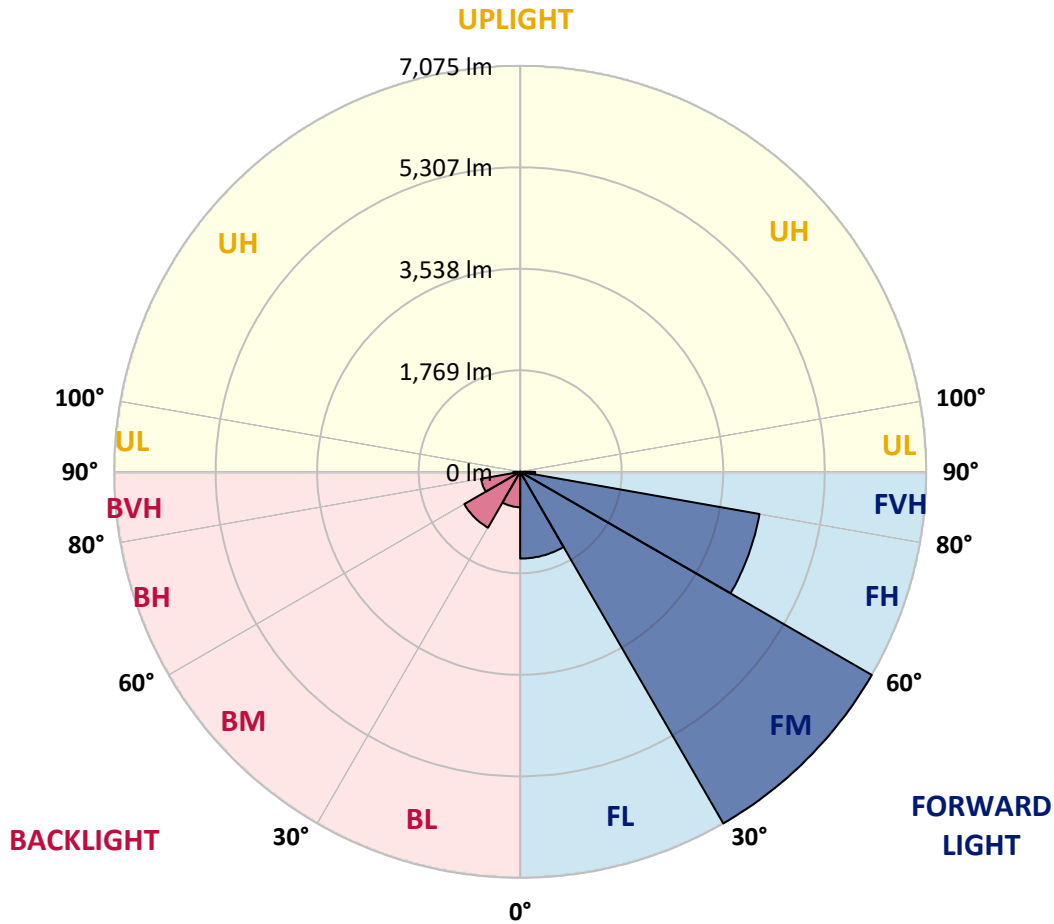
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1512.7	9.7			
FM (30°-60°)	7075.5	45.2			
FH (60°-80°)	4234.3	27.1			G2/5000
FVH (80°-90°)	262.4	1.7			G3/500
BL (0°-30°)	616.6	3.9	B2/1000		
BM (30°-60°)	1124.1	7.2	B2/2500		
BH (60°-80°)	692.5	4.4	B2/1000		G2/1000
BVH (80°-90°)	119.8	0.8			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1955.6	1955.6	1955.6	1955.6	1955.6	1955.6	1955.6	1955.6	1955.6	1955.6	1955.6
2.5°	2492.3	2473.8	2471.7	2443.0	2416.2	2344.3	2292.8	2202.4	2111.9	2109.8	2019.3
5°	2881.0	2862.5	2852.2	2817.2	2772.0	2677.4	2584.8	2445.0	2290.8	2280.5	2109.8
7.5°	3144.2	3127.7	3107.2	3092.8	3049.6	2965.3	2852.2	2685.6	2473.8	2453.2	2214.7
10°	3321.0	3310.7	3306.6	3296.3	3269.6	3201.8	3092.8	2915.9	2656.8	2634.2	2325.7
12.5°	3397.1	3393.0	3411.5	3440.3	3450.6	3423.8	3319.0	3152.4	2858.3	2833.7	2459.4
15°	3308.7	3312.8	3360.1	3458.8	3563.7	3621.3	3559.6	3397.1	3086.6	3051.6	2615.7
17.5°	3267.6	3273.7	3306.6	3401.2	3549.3	3728.2	3757.0	3629.5	3306.6	3257.3	2780.2
20°	3339.5	3347.8	3372.4	3446.5	3549.3	3740.5	3890.6	3851.6	3522.5	3471.1	2938.5
22.5°	3522.5	3532.8	3530.8	3578.1	3648.0	3779.6	3964.7	4061.3	3748.7	3691.2	3103.0
25°	3913.3	3905.0	3835.1	3812.5	3831.0	3915.3	4063.4	4262.8	3985.2	3927.6	3275.8
27.5°	4443.8	4433.5	4306.0	4190.9	4088.0	4125.1	4203.2	4425.3	4225.8	4160.0	3440.3
30°	5011.4	4999.0	4851.0	4663.8	4435.6	4382.1	4371.8	4567.2	4468.5	4398.6	3615.1
32.5°	5564.5	5554.2	5395.9	5177.9	4863.3	4702.9	4604.2	4725.5	4744.0	4676.2	3806.3
35°	6068.3	6068.3	5932.6	5673.5	5317.7	5075.1	4912.6	4920.9	5060.7	4982.6	4024.3
37.5°	6516.6	6514.5	6366.5	6111.5	5770.1	5492.5	5291.0	5157.4	5363.0	5295.1	4252.6
40°	6872.4	6858.0	6749.0	6526.9	6183.5	5907.9	5704.3	5435.0	5700.2	5638.5	4495.2
42.5°	7131.5	7123.2	7049.2	6855.9	6528.9	6269.8	6130.0	5784.5	6082.7	6021.0	4779.0
45°	7232.2	7248.7	7248.7	7065.7	6806.6	6570.1	6508.4	6169.1	6496.0	6434.4	5083.3
47.5°	7069.8	7113.0	7201.4	7213.7	6985.5	6825.1	6845.6	6555.7	6921.7	6888.8	5416.5
50°	6561.8	6642.0	6835.3	7184.9	7057.4	7020.4	7133.5	6950.5	7378.2	7367.9	5821.6
52.5°	5251.9	5447.3	6049.8	6677.0	7008.1	7110.9	7419.3	7394.7	7966.3	7982.8	6350.0
55°	4028.4	4102.4	4799.5	5866.8	6705.8	7082.1	7610.6	7828.6	8603.8	8624.4	6835.3
57.5°	3257.3	3306.6	3687.1	4799.5	6016.9	6925.8	7760.7	8081.5	9093.2	9146.7	7267.2
60°	2580.7	2652.7	2907.7	3672.7	5052.5	6549.5	7865.6	8363.2	9619.7	9699.9	7783.3
62.5°	1918.6	1953.5	2194.1	2720.6	3999.6	5873.0	7810.1	8669.6	10265.4	10362.0	8404.3
65°	1365.4	1396.3	1566.9	1935.0	2957.0	4957.9	7487.2	8897.9	11075.6	11174.3	9029.5
67.5°	1022.0	1034.3	1131.0	1353.1	1992.6	3851.6	6833.3	8858.8	11667.8	11756.2	9280.4
70°	808.1	812.3	859.6	978.8	1295.5	2681.5	5687.9	8285.1	11711.0	11789.1	8963.7
72.5°	670.4	668.3	695.0	752.6	902.7	1696.5	4213.5	7219.9	11155.8	11209.2	8079.4
75°	553.2	557.3	575.8	608.7	688.9	1118.7	2730.8	5759.9	9841.7	9784.2	6779.8
77.5°	464.7	462.7	470.9	499.7	557.3	804.0	1599.8	4162.1	7293.9	7265.1	4450.0
80°	374.3	378.4	390.7	415.4	468.9	612.8	945.9	2597.2	3913.3	3808.4	2126.3
82.5°	250.9	289.9	314.6	343.4	405.1	452.4	600.5	1320.2	1750.0	1723.2	964.4
85°	119.3	158.3	234.4	267.3	329.0	283.8	407.2	629.2	876.0	865.7	347.5
87.5°	24.7	24.7	125.4	150.1	203.6	121.3	226.2	273.5	423.6	396.9	141.9
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°	1955.6	1955.6	1955.6	1955.6	1955.6	1955.6	1955.6	1955.6	1955.6	1955.6	1955.6
2.5°	1965.9	1910.4	1799.3	1710.9	1620.4	1569.0	1505.3	1474.4	1468.2	1451.8	1464.1
5°	2000.8	1891.9	1682.1	1544.3	1451.8	1406.6	1383.9	1375.7	1373.6	1369.5	1369.5
7.5°	2048.1	1881.6	1608.1	1468.2	1408.6	1394.2	1400.4	1412.7	1414.8	1418.9	1416.8
10°	2105.7	1883.6	1566.9	1449.7	1420.9	1423.0	1443.6	1460.0	1468.2	1474.4	1472.4
12.5°	2185.9	1908.3	1560.8	1462.1	1449.7	1458.0	1478.5	1495.0	1503.2	1505.3	1505.3
15°	2290.8	1959.7	1575.2	1488.8	1478.5	1484.7	1497.0	1503.2	1505.3	1503.2	1503.2
17.5°	2405.9	2021.4	1595.7	1505.3	1488.8	1482.6	1478.5	1472.4	1460.0	1451.8	1451.8
20°	2517.0	2076.9	1606.0	1503.2	1474.4	1449.7	1425.1	1394.2	1373.6	1357.2	1357.2
22.5°	2628.0	2128.3	1606.0	1480.6	1435.3	1388.0	1336.6	1287.3	1256.4	1235.9	1235.9
25°	2745.2	2177.7	1593.7	1441.5	1373.6	1305.8	1235.9	1174.2	1143.3	1122.8	1118.7
27.5°	2843.9	2206.5	1560.8	1386.0	1297.6	1211.2	1131.0	1067.3	1044.6	1026.1	1026.1
30°	2948.8	2225.0	1499.1	1314.0	1211.2	1112.5	1030.2	978.8	954.2	927.4	925.4
32.5°	3066.0	2237.3	1429.2	1237.9	1122.8	1017.9	948.0	906.9	853.4	824.6	820.5
35°	3201.8	2253.8	1355.1	1151.6	1034.3	939.8	898.6	830.8	779.4	754.7	752.6
37.5°	3345.7	2266.1	1274.9	1075.5	954.2	888.3	847.2	767.0	721.8	684.8	680.7
40°	3497.9	2266.1	1192.7	1001.4	890.4	865.7	787.6	715.6	639.5	621.0	616.9
42.5°	3666.5	2262.0	1110.4	929.5	830.8	814.3	752.6	676.5	637.5	621.0	616.9
45°	3845.4	2247.6	1032.3	847.2	769.1	736.2	688.9	668.3	651.9	651.9	651.9
47.5°	4049.0	2235.3	943.9	773.2	723.8	686.8	651.9	639.5	637.5	643.6	649.8
50°	4310.1	2231.2	869.8	719.7	688.9	645.7	641.6	631.3	633.4	633.4	633.4
52.5°	4626.8	2194.1	799.9	680.7	653.9	602.5	614.9	625.1	629.2	627.2	625.1
55°	4859.2	2128.3	740.3	653.9	629.2	586.1	602.5	619.0	623.1	616.9	616.9
57.5°	5068.9	2035.8	693.0	633.4	612.8	575.8	594.3	610.7	606.6	604.6	602.5
60°	5309.5	1947.4	656.0	623.1	596.3	571.7	588.1	598.4	592.2	588.1	586.1
62.5°	5570.7	1861.0	629.2	623.1	584.0	569.6	582.0	586.1	573.7	569.6	569.6
65°	5692.0	1725.3	600.5	623.1	577.8	565.5	569.6	565.5	553.2	553.2	551.1
67.5°	5492.5	1501.1	563.4	614.9	586.1	559.3	551.1	544.9	530.5	530.5	526.4
70°	4941.4	1233.8	510.0	588.1	588.1	557.3	526.4	512.0	495.6	501.8	493.5
72.5°	4221.7	978.8	444.2	542.9	575.8	555.2	499.7	477.1	462.7	468.9	456.5
75°	3419.7	758.8	366.0	470.9	544.9	544.9	473.0	442.1	425.7	425.7	411.3
77.5°	2179.7	561.4	298.2	390.7	489.4	530.5	450.3	403.0	378.4	372.2	361.9
80°	1079.6	394.8	244.7	310.5	417.4	497.6	433.9	357.8	322.8	310.5	292.0
82.5°	573.7	273.5	195.4	242.7	333.1	448.3	413.3	308.5	265.3	246.8	226.2
85°	257.0	168.6	156.3	185.1	252.9	368.1	372.2	252.9	203.6	242.7	178.9
87.5°	94.6	76.1	76.1	94.6	146.0	154.2	263.2	162.5	129.6	88.4	69.9
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)