

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: P317616

Luminaire Tested: **GAN-SA2D-830-U-T2R**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P317616
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA2D-830-U-T2R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13143 lumens
Efficiency: N/A
Efficacy: 101.9 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 129
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: 24 FT

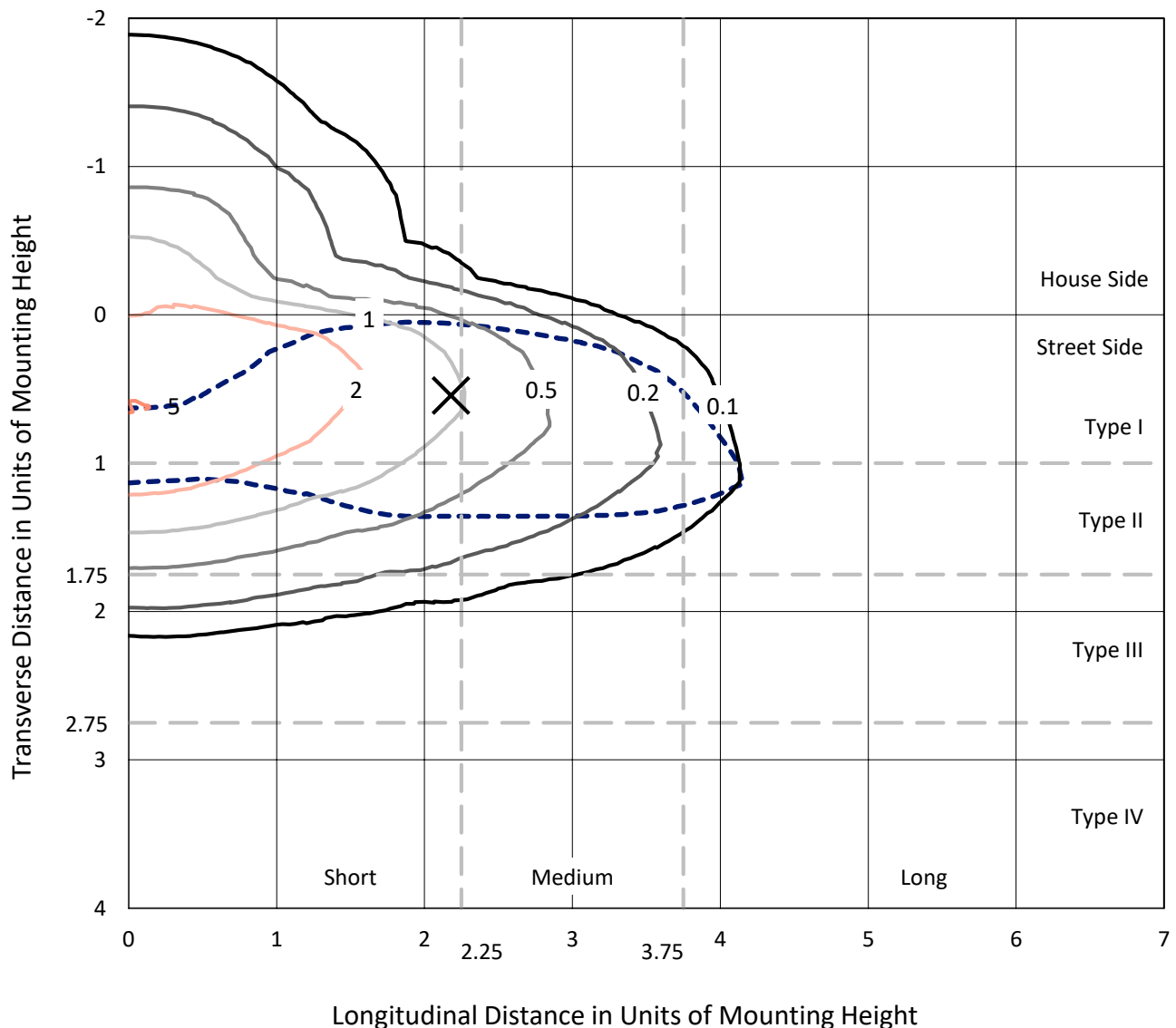


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Iso-Footcandle Lines of Horizontal Illumination

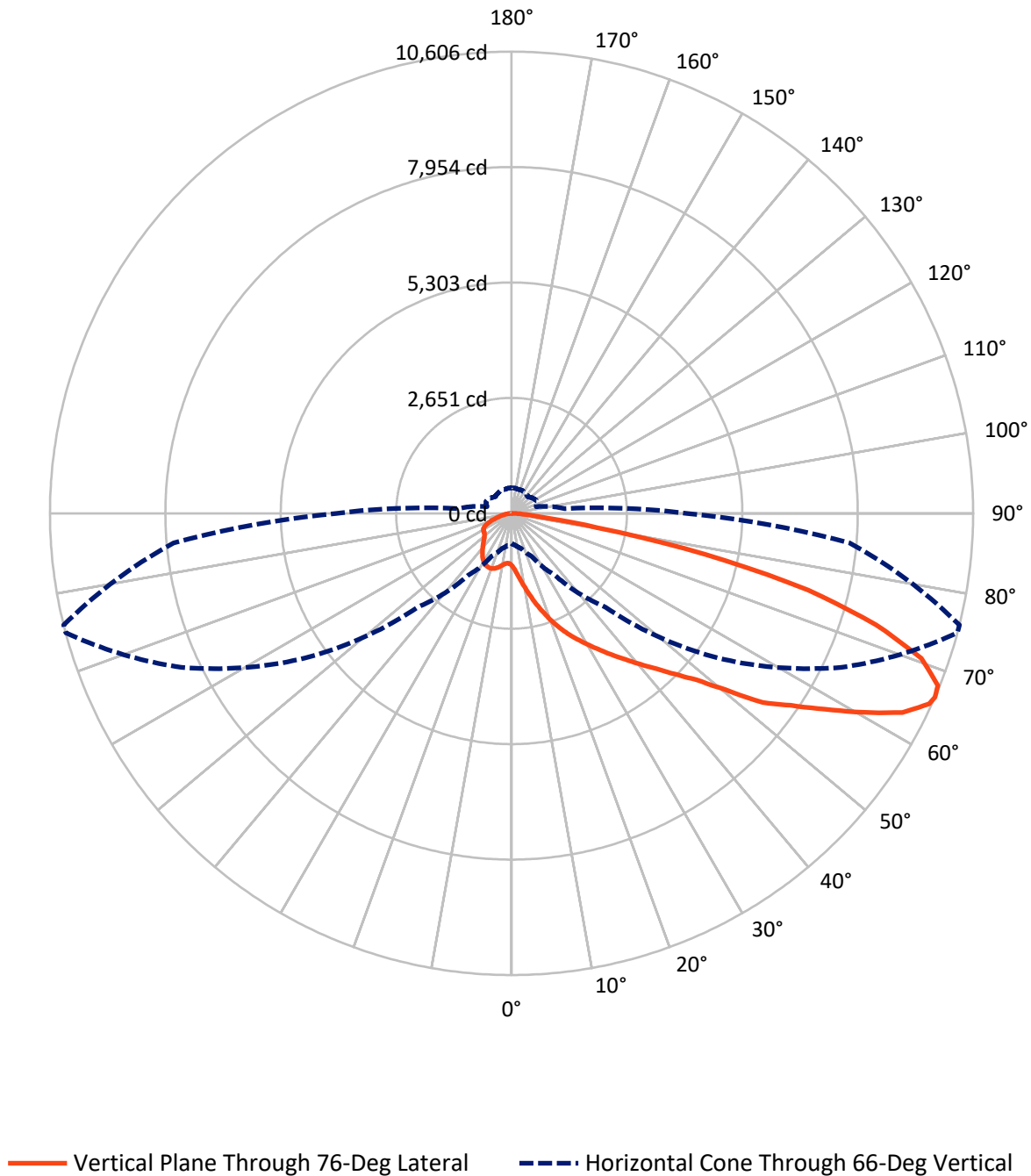
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.1 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2211.5	0.0	2211.5
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	10931.5	0.0	10931.5
	% Fixture	83.2	0.0	83.2
Total	Lumens	13143.0	0.0	13143.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.1	1.1
10°-20°	573.2	4.4
20°-30°	1113.8	8.5
30°-40°	1818.0	13.8
40°-50°	2483.8	18.9
50°-60°	2893.1	22.0
60°-70°	2593.7	19.7
70°-80°	1310.7	10.0
80°-90°	211.7	1.6
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°	13143.0	100.0
0°-180°	13143.0	100.0

Coefficient of Utilization



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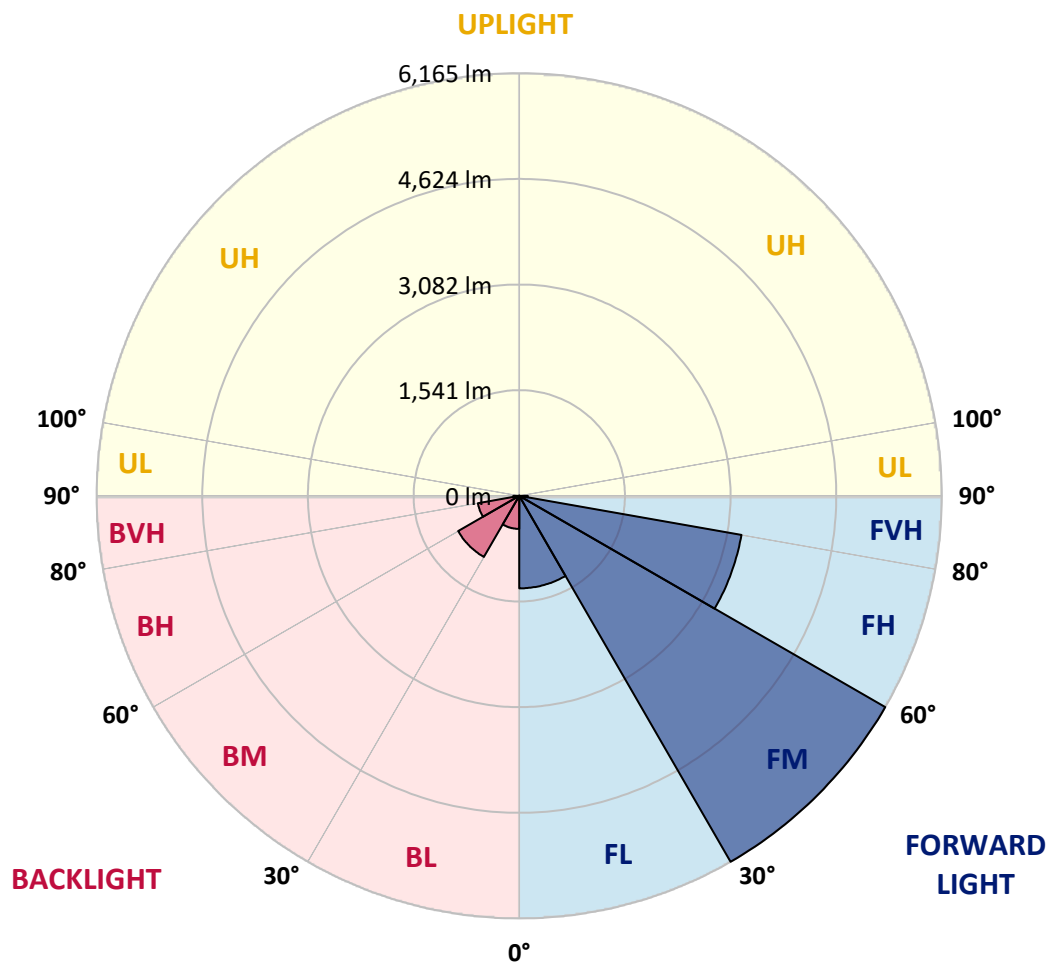
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1349.8	10.3			
FM	(30°-60°)	6165.0	46.9			
FH	(60°-80°)	3291.8	25.0			G2/5000
FVH	(80°-90°)	125.0	1.0			G2/225
BL	(0°-30°)	482.3	3.7	B1/500		
BM	(30°-60°)	1029.8	7.8	B2/2500		
BH	(60°-80°)	612.7	4.7	B2/1000		G2/1000
BVH	(80°-90°)	86.7	0.7			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 Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	76°	85°
0°	1200.3	1200.3	1200.3	1200.3	1200.3	1200.3	1200.3	1200.3	1200.3	1200.3	1200.3
2.5°	1593.3	1569.3	1567.0	1531.8	1523.7	1456.4	1406.8	1355.1	1296.2	1284.6	1238.2
5°	2046.7	2044.4	2013.7	1956.1	1911.0	1795.9	1682.1	1561.7	1429.6	1408.2	1303.8
7.5°	2454.5	2450.9	2427.3	2365.3	2300.1	2158.7	1996.3	1811.5	1597.4	1565.7	1392.6
10°	2764.1	2762.8	2754.8	2709.3	2653.9	2518.3	2338.9	2086.8	1792.3	1749.1	1503.7
12.5°	3003.3	3006.0	3011.3	2995.3	2969.0	2853.4	2669.6	2378.6	2000.3	1957.4	1627.3
15°	3165.3	3173.3	3201.0	3223.7	3237.6	3166.6	2988.6	2677.1	2233.2	2181.9	1764.2
17.5°	3246.9	3255.9	3303.6	3372.3	3435.7	3428.5	3287.1	2961.8	2456.7	2407.2	1911.5
20°	3317.4	3324.1	3377.7	3460.2	3572.2	3621.7	3542.3	3235.8	2701.7	2642.8	2067.6
22.5°	3521.8	3530.3	3546.3	3593.2	3692.2	3783.2	3744.9	3495.0	2926.1	2871.2	2215.8
25°	3916.2	3926.5	3891.7	3852.0	3870.7	3934.1	3941.2	3731.5	3153.7	3091.7	2375.1
27.5°	4391.4	4406.1	4346.8	4244.6	4155.4	4130.8	4122.4	3925.1	3371.0	3299.1	2532.6
30°	4856.8	4882.2	4805.0	4672.5	4508.8	4393.6	4308.4	4114.8	3585.1	3516.4	2681.2
32.5°	5311.5	5301.2	5189.2	5059.8	4867.9	4723.8	4517.7	4318.2	3826.1	3747.1	2828.8
35°	5622.9	5626.5	5522.5	5369.0	5186.1	5075.4	4797.9	4537.8	4071.9	3999.2	2996.6
37.5°	5887.9	5871.4	5753.6	5610.4	5452.9	5405.6	5125.8	4779.6	4338.3	4258.9	3175.1
40°	5976.3	5957.1	5879.9	5776.8	5650.6	5646.5	5487.7	5053.6	4639.5	4561.0	3376.3
42.5°	5922.7	5898.2	5866.5	5838.4	5799.6	5817.4	5827.7	5374.8	4970.6	4882.7	3609.2
45°	5725.1	5688.0	5710.3	5771.5	5855.8	5956.6	6134.7	5730.4	5341.3	5267.7	3882.7
47.5°	5421.2	5387.7	5457.4	5588.1	5817.4	6072.7	6425.1	6123.1	5784.0	5710.8	4272.3
50°	4993.8	5003.6	5103.1	5340.9	5687.6	6126.2	6783.0	6642.9	6427.4	6359.1	4803.7
52.5°	4292.4	4294.1	4574.3	4964.8	5457.4	6098.5	6981.5	7307.3	7305.9	7223.4	5309.7
55°	3640.9	3680.6	3902.4	4421.3	5084.3	5987.9	7120.3	7630.3	7882.8	7786.0	5781.3
57.5°	3004.6	3027.8	3238.0	3759.2	4552.0	5692.9	7262.6	8018.0	8547.7	8486.5	6367.6
60°	2280.9	2316.6	2533.9	3015.4	3871.1	5169.6	7276.0	8422.7	9342.3	9280.8	7022.1
62.5°	1480.5	1542.0	1745.5	2196.6	3047.5	4416.8	6965.5	8687.3	10095.5	10073.6	7603.1
65°	850.9	897.3	1038.7	1386.8	2102.4	3471.8	6227.0	8585.6	10559.1	10546.6	7820.4
66°	695.2	724.2	832.6	1083.8	1734.8	3048.8	5797.8	8371.0	10605.1	10605.5	7795.4
67.5°	556.0	568.9	617.5	775.9	1280.1	2416.6	5030.8	7897.6	10547.9	10563.6	7634.3
70°	460.0	466.7	481.9	520.3	698.7	1457.3	3570.9	6667.4	9974.6	9986.6	7005.6
72.5°	412.7	416.7	422.5	427.9	493.0	814.3	2181.0	5333.8	8745.3	8760.9	6047.7
75°	373.9	376.1	375.2	375.7	413.6	518.9	1127.1	3982.2	7071.2	7040.0	4632.8
77.5°	328.4	330.6	326.2	327.1	365.9	398.9	560.9	2787.8	4772.0	4551.6	2610.2
80°	277.5	279.3	277.5	280.7	318.6	301.2	326.2	1568.4	2110.0	1995.8	928.1
82.5°	209.7	217.3	222.6	235.1	262.4	214.2	218.2	610.8	642.5	611.7	284.7
85°	91.9	112.0	167.8	179.8	197.2	128.5	143.2	249.0	261.5	253.4	103.5
87.5°	24.1	26.3	83.0	104.4	109.3	58.0	74.5	113.3	119.6	113.3	34.4
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°	1200.3	1200.3	1200.3	1200.3	1200.3	1200.3	1200.3	1200.3	1200.3	1200.3	1200.3
2.5°	1213.6	1191.8	1152.5	1117.7	1091.4	1073.5	1055.7	1046.8	1041.4	1036.1	1036.9
5°	1252.5	1208.3	1140.9	1093.2	1066.4	1049.4	1040.5	1036.9	1034.7	1029.4	1029.4
7.5°	1310.9	1248.4	1155.6	1106.6	1085.6	1072.6	1067.3	1065.5	1062.8	1056.6	1057.5
10°	1384.5	1297.1	1186.4	1138.7	1119.5	1105.2	1097.6	1095.0	1090.0	1082.9	1083.8
12.5°	1471.1	1357.3	1227.0	1177.1	1153.8	1134.7	1122.2	1114.6	1106.1	1096.7	1097.2
15°	1565.7	1422.9	1270.8	1211.4	1179.7	1153.0	1132.9	1119.9	1106.6	1095.0	1094.5
17.5°	1661.6	1486.3	1304.2	1230.1	1187.3	1152.1	1124.8	1104.8	1088.3	1074.0	1072.6
20°	1765.1	1543.4	1323.0	1228.4	1173.0	1131.1	1095.0	1070.0	1051.7	1037.4	1035.2
22.5°	1870.4	1596.9	1326.1	1210.1	1141.4	1090.0	1052.1	1024.5	1005.7	991.0	985.6
25°	1966.8	1638.4	1313.1	1174.8	1097.2	1041.9	1004.8	976.7	961.5	944.1	938.8
27.5°	2054.7	1667.4	1287.3	1129.8	1047.7	993.2	958.4	934.3	917.8	904.4	900.0
30°	2133.7	1683.0	1244.9	1076.2	996.8	947.3	917.8	901.3	887.0	870.1	866.9
32.5°	2208.6	1683.0	1190.4	1017.8	946.4	906.7	889.3	879.0	862.9	846.4	842.0
35°	2283.6	1672.8	1126.2	956.6	900.0	877.7	876.8	864.7	840.2	817.9	812.1
37.5°	2362.6	1651.8	1053.9	899.5	862.0	864.7	872.3	845.5	810.7	779.0	770.6
40°	2451.8	1622.8	978.9	850.0	830.4	858.9	860.3	817.9	750.0	721.0	713.5
42.5°	2556.7	1593.8	909.3	806.3	805.4	841.5	837.5	758.1	717.5	702.7	698.7
45°	2694.5	1577.3	843.3	764.8	785.7	813.4	798.7	725.1	708.1	699.6	696.1
47.5°	2911.8	1585.8	782.6	731.8	766.1	785.3	726.4	711.7	699.6	689.4	685.8
50°	3184.0	1580.9	733.5	709.0	743.8	755.8	693.8	694.3	688.0	676.4	671.1
52.5°	3388.8	1542.5	701.9	696.1	724.2	703.6	673.3	677.3	674.2	657.2	651.4
55°	3586.5	1509.5	685.8	691.1	709.9	638.5	649.2	659.0	655.9	639.4	636.7
57.5°	3832.3	1503.2	676.0	692.5	697.8	605.9	626.0	638.9	636.7	629.6	628.2
60°	4133.5	1505.0	667.1	694.7	684.5	581.8	604.1	620.7	622.0	620.7	619.8
62.5°	4299.0	1456.4	644.7	688.5	660.8	560.9	581.4	605.5	605.9	608.6	608.2
65°	4158.5	1310.9	603.2	666.6	621.1	543.5	561.8	588.1	581.4	593.4	593.4
66°	4022.0	1227.0	582.7	652.3	604.1	536.8	555.5	579.2	570.7	587.2	587.2
67.5°	3743.1	1085.6	545.7	622.0	580.0	527.4	548.4	564.4	552.8	577.4	575.6
70°	3233.5	839.7	471.2	553.3	540.3	513.6	538.6	535.0	518.0	555.5	548.4
72.5°	2726.2	638.1	378.4	463.1	480.1	496.2	524.7	497.5	476.1	502.4	486.8
75°	2115.4	479.7	298.9	360.1	405.6	468.9	508.2	454.2	423.4	420.8	412.3
77.5°	1143.6	329.3	236.9	274.9	322.1	435.0	497.1	407.8	361.4	350.7	344.0
80°	452.9	214.2	172.2	208.4	225.3	386.0	470.3	353.8	298.1	287.3	277.1
82.5°	187.0	126.7	111.1	139.7	146.8	330.2	422.1	290.0	230.2	318.6	338.2
85°	80.3	69.6	66.0	72.3	83.0	231.6	336.0	221.3	248.5	221.8	176.2
87.5°	24.1	29.4	28.1	27.7	30.3	55.3	178.9	123.1	182.5	69.2	51.8
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)