

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: P454790

Luminaire Tested: **GLAN-SA5D-830-U-T2**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P454790
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-10)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA5D-830-U-T2
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30961 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type II - Medium
BUG Rating: B3 - U0 - G4

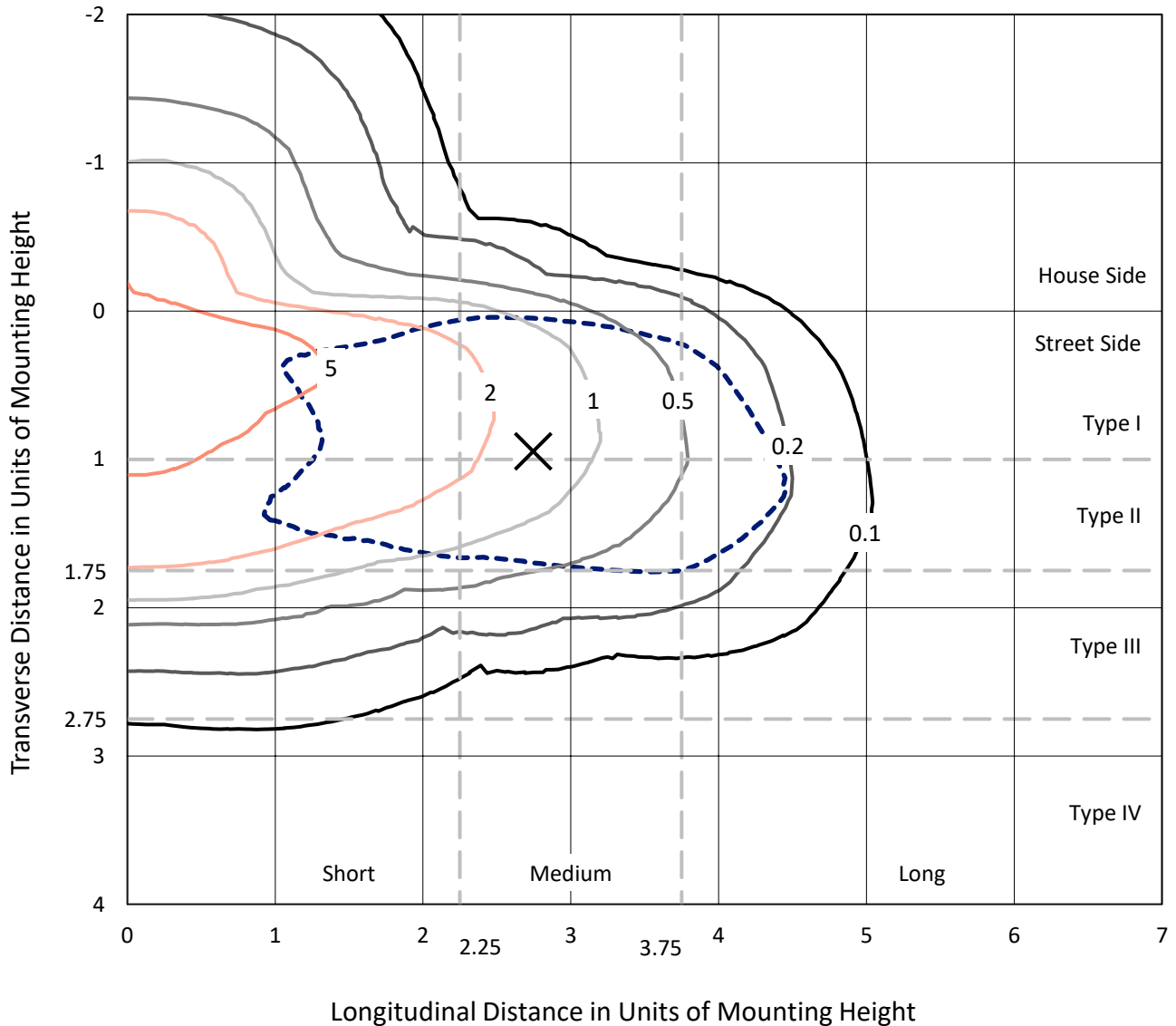
Input Watts (W): 309
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

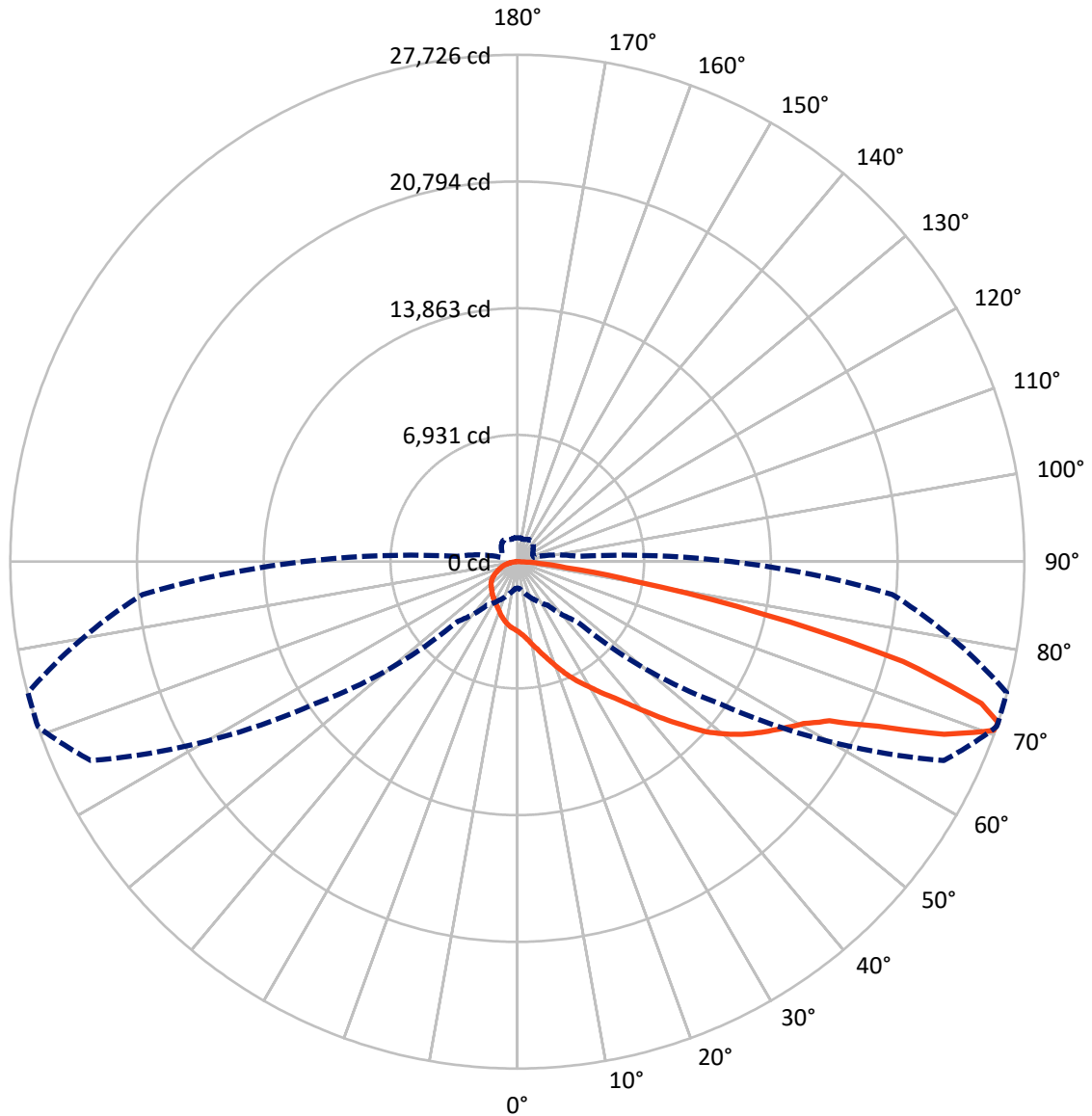
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.6 fc
 Type II - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5568.3	0.0	5568.3
	% Fixture	18.0	0.0	18.0
Street Side	Lumens	25392.8	0.0	25392.8
	% Fixture	82.0	0.0	82.0
Total	Lumens	30961.0	0.0	30961.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	381.5	1.2
10°-20°	1239.6	4.0
20°-30°	2166.2	7.0
30°-40°	3222.0	10.4
40°-50°	4747.2	15.3
50°-60°	6646.2	21.5
60°-70°	7433.5	24.0
70°-80°	4540.7	14.7
80°-90°	584.1	1.9
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°	30961.0	100.0
0°-180°	30961.0	100.0

Coefficient of Utilization



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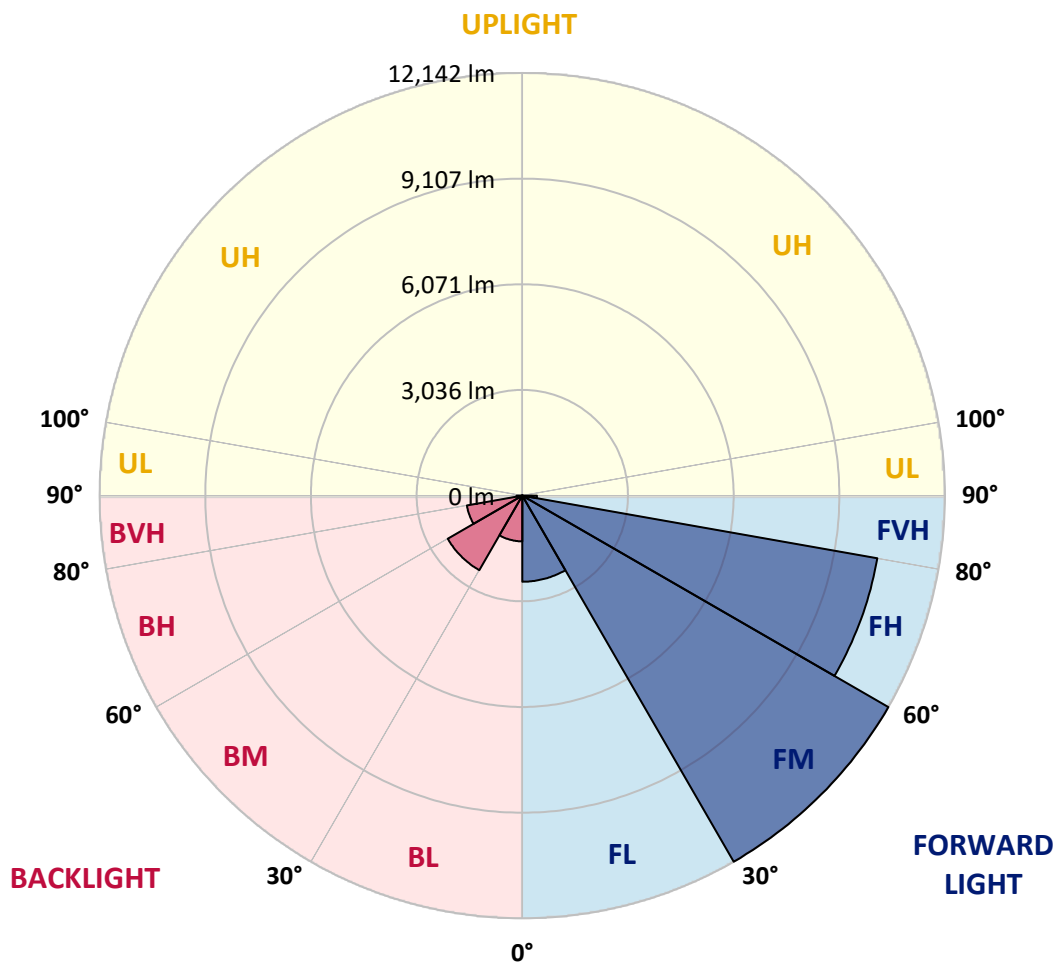
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2473.8	8.0			
FM (30°-60°)	12142.3	39.2			
FH (60°-80°)	10356.4	33.4			G4/12000
FVH (80°-90°)	420.3	1.4			G3/500
BL (0°-30°)	1313.5	4.2	B3/2500		
BM (30°-60°)	2473.1	8.0	B2/2500		
BH (60°-80°)	1617.8	5.2	B3/2500		G3/2500
BVH (80°-90°)	163.8	0.5			G2/225
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type II Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	71°	75°	85°
0°	3799.9	3799.9	3799.9	3799.9	3799.9	3799.9	3799.9	3799.9	3799.9	3799.9	3799.9
2.5°	4218.5	4198.0	4199.7	4170.8	4133.4	4092.5	4034.7	3983.6	3942.8	3919.0	3849.2
5°	4674.5	4654.1	4628.6	4565.6	4538.4	4438.0	4310.4	4194.6	4106.2	4056.8	3917.3
7.5°	5043.8	5038.7	5031.9	4996.1	4926.4	4786.8	4677.9	4477.1	4346.1	4252.5	4014.3
10°	5271.8	5280.3	5285.4	5292.2	5263.3	5190.1	5040.4	4786.8	4620.1	4500.9	4140.2
12.5°	5387.5	5396.0	5425.0	5487.9	5527.1	5518.5	5396.0	5147.6	4917.9	4761.3	4274.6
15°	5459.0	5472.6	5523.7	5607.0	5738.1	5821.4	5761.9	5532.2	5280.3	5094.8	4434.6
17.5°	5537.3	5552.6	5608.7	5727.9	5899.7	6080.1	6144.8	5947.4	5673.4	5452.2	4613.3
20°	5581.5	5601.9	5681.9	5838.5	6039.3	6301.3	6515.7	6411.9	6112.4	5867.4	4819.2
22.5°	5653.0	5670.0	5738.1	5904.8	6144.8	6473.2	6886.7	6864.6	6600.8	6284.3	5045.5
25°	5847.0	5874.2	5908.2	6008.6	6240.1	6648.5	7194.7	7347.9	7073.9	6719.9	5253.1
27.5°	6212.8	6235.0	6233.3	6246.9	6377.9	6799.9	7461.9	7826.0	7543.5	7160.7	5453.9
30°	6629.7	6638.3	6645.1	6614.4	6643.4	6954.8	7706.9	8299.1	8016.6	7613.3	5629.2
32.5°	7136.8	7153.9	7096.0	7017.7	6993.9	7184.5	7909.4	8772.2	8576.5	8072.8	5802.7
35°	7735.8	7780.1	7662.7	7524.8	7427.8	7514.6	8181.7	9255.4	9149.9	8659.9	6032.5
37.5°	8419.9	8474.4	8365.5	8094.9	7957.1	7980.9	8537.3	9852.7	9874.9	9328.6	6374.5
40°	8979.8	9051.2	9054.6	8671.8	8462.5	8489.7	8988.3	10496.0	10749.5	10155.6	6777.8
42.5°	9349.0	9418.8	9492.0	9267.4	9047.8	9202.7	9514.1	11193.7	11733.1	11159.6	7341.0
45°	9754.0	9817.0	9857.8	9755.7	9633.2	10034.8	10148.8	11935.6	12781.3	12281.0	7957.1
47.5°	10223.7	10293.5	10332.6	10235.6	10189.7	10764.8	10832.9	12628.2	13901.0	13370.1	8637.7
50°	10849.9	10902.7	10882.2	10821.0	10810.8	11324.7	11489.7	13276.5	14825.0	14542.6	9343.9
52.5°	11629.3	11692.2	11714.4	11627.6	11588.4	11724.6	12019.0	13867.0	15665.7	15550.0	10097.8
55°	12100.6	12201.0	12538.0	12674.1	12767.7	12241.9	12589.0	14518.7	16419.5	16611.8	10907.8
57.5°	11496.6	11625.9	12379.7	13060.4	13940.2	13535.2	13397.3	15199.4	17173.4	17641.3	11877.7
60°	10022.9	10051.8	11023.5	12277.6	14047.4	15197.7	15083.7	16281.7	17990.2	18679.3	13155.7
62.5°	6953.1	7014.3	8163.0	10164.1	12723.5	15796.7	17952.7	18150.1	19160.9	20233.0	15029.2
65°	3585.4	3505.5	4552.0	6388.1	9592.4	14374.1	20277.2	21585.8	21699.8	22663.0	17666.8
67.5°	2207.1	2242.8	2732.9	3730.1	5671.7	10446.6	20033.9	25783.9	25183.2	25646.0	20115.6
70°	1657.4	1701.7	2038.6	2552.5	3457.8	5972.9	16111.5	26801.5	27640.4	27521.3	20860.9
71°	1441.3	1487.3	1837.8	2322.8	2904.8	4609.9	13574.3	25736.2	27725.5	27705.1	20580.1
72.5°	1228.6	1257.5	1531.5	1967.1	2448.7	3231.5	10198.2	23081.6	26542.8	27221.8	19577.8
75°	964.9	987.0	1109.5	1500.9	1928.0	1984.2	5472.6	17304.4	21800.2	23093.5	16298.7
77.5°	786.2	801.5	864.5	1114.6	1487.3	1405.6	2870.7	11263.4	13657.7	14959.5	9600.9
80°	624.5	641.5	679.0	755.5	1114.6	1002.3	1369.9	5707.4	6597.4	6583.8	3832.2
82.5°	485.0	490.1	534.3	554.7	762.4	711.3	741.9	2416.4	2676.7	2765.2	1383.5
85°	306.3	321.6	473.1	425.4	456.1	416.9	365.9	959.7	1182.7	1165.7	553.0
87.5°	93.6	98.7	160.0	180.4	202.5	182.1	134.4	282.5	345.4	374.4	137.8
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°	3799.9	3799.9	3799.9	3799.9	3799.9	3799.9	3799.9	3799.9	3799.9	3799.9	3799.9
2.5°	3822.0	3803.3	3736.9	3682.4	3631.4	3575.2	3527.6	3514.0	3502.1	3497.0	3495.3
5°	3857.7	3801.6	3670.5	3563.3	3478.2	3400.0	3350.6	3328.5	3306.4	3306.4	3313.2
7.5°	3908.8	3806.7	3604.2	3444.2	3337.0	3263.8	3228.1	3224.7	3229.8	3234.9	3236.6
10°	3964.9	3803.3	3507.2	3308.1	3212.8	3178.7	3180.4	3209.4	3236.6	3257.0	3260.4
12.5°	4019.4	3782.8	3393.2	3180.4	3119.2	3126.0	3173.6	3238.3	3291.0	3320.0	3321.7
15°	4080.6	3750.5	3255.3	3059.6	3039.2	3092.0	3180.4	3279.1	3359.1	3406.8	3411.9
17.5°	4131.7	3696.0	3110.7	2942.2	2967.7	3064.7	3187.2	3314.9	3411.9	3471.4	3481.6
20°	4189.5	3626.3	2960.9	2829.9	2903.1	3034.1	3173.6	3311.5	3411.9	3469.7	3483.3
22.5°	4235.5	3527.6	2818.0	2738.0	2845.2	2996.7	3127.7	3238.3	3320.0	3350.6	3371.0
25°	4254.2	3403.4	2683.5	2663.1	2799.3	2935.4	3023.9	3086.8	3112.4	3109.0	3117.5
27.5°	4244.0	3260.4	2567.8	2603.6	2741.4	2840.1	2884.3	2879.2	2833.3	2790.8	2811.2
30°	4201.4	3090.3	2470.8	2542.3	2666.5	2721.0	2714.2	2647.8	2561.0	2481.0	2486.2
32.5°	4124.9	2906.5	2380.7	2472.5	2561.0	2584.9	2538.9	2452.1	2327.9	2224.1	2208.8
35°	4060.2	2731.2	2300.7	2392.6	2455.5	2443.6	2399.4	2287.1	2174.7	2082.9	2067.5
37.5°	4050.0	2581.4	2224.1	2302.4	2338.1	2321.1	2266.6	2171.3	2130.5	2060.7	2052.2
40°	4104.5	2475.9	2145.8	2207.1	2224.1	2210.5	2150.9	2096.5	2133.9	2116.9	2116.9
42.5°	4252.5	2419.8	2076.0	2111.8	2125.4	2135.6	2093.1	2047.1	2093.1	2014.8	1989.3
45°	4487.3	2421.5	2013.1	2018.2	2059.0	2094.8	2065.8	1997.8	1973.9	1817.4	1786.8
47.5°	4832.8	2479.3	1962.0	1929.7	2002.9	2062.4	2021.6	1922.9	1817.4	1713.6	1694.9
50°	5236.1	2583.2	1916.1	1837.8	1928.0	2021.6	1991.0	1875.3	1766.3	1703.4	1691.5
52.5°	5683.6	2714.2	1859.9	1735.7	1836.1	2002.9	1997.8	1868.4	1718.7	1676.2	1665.9
55°	6236.7	2843.5	1790.2	1616.6	1754.4	1987.6	1979.1	1812.3	1708.5	1677.9	1674.5
57.5°	6879.9	3030.7	1689.8	1495.8	1660.8	1924.6	1905.9	1778.3	1674.5	1652.3	1650.6
60°	7916.2	3321.7	1546.8	1385.2	1565.5	1814.0	1837.8	1720.4	1620.0	1614.9	1613.2
62.5°	9279.3	3730.1	1398.8	1271.2	1454.9	1671.1	1739.1	1642.1	1562.1	1587.7	1591.1
65°	11161.3	4073.8	1245.6	1174.2	1332.4	1533.2	1645.5	1568.9	1497.5	1546.8	1546.8
67.5°	12388.2	4080.6	1106.1	1073.8	1208.2	1417.5	1546.8	1482.2	1414.1	1497.5	1500.9
70°	12133.0	3575.2	990.4	968.3	1087.4	1293.3	1437.9	1386.9	1308.6	1383.5	1356.2
71°	11721.2	3294.5	944.4	927.4	1039.7	1233.7	1386.9	1344.3	1266.1	1315.4	1300.1
72.5°	11064.3	2860.5	869.6	873.0	968.3	1158.8	1315.4	1271.2	1192.9	1220.1	1215.0
75°	9352.4	2498.1	743.6	758.9	832.1	1031.2	1172.5	1138.4	1058.4	1058.4	1053.3
77.5°	5847.0	1745.9	617.7	626.2	706.2	883.2	1007.4	978.5	901.9	876.4	869.6
80°	2181.6	901.9	483.3	493.5	542.8	696.0	833.8	806.6	728.3	699.4	672.2
82.5°	825.3	452.6	355.7	347.1	399.9	530.9	653.4	621.1	559.9	490.1	469.7
85°	311.4	224.6	217.8	211.0	234.8	314.8	405.0	398.2	333.5	284.2	279.1
87.5°	81.7	73.2	85.1	63.0	66.4	59.6	61.3	25.5	11.9	5.1	3.4
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)