

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: P300320

Luminaire Tested: **GAA-AF-05-LED-U-T4FT-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P300320
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)
Test Lab: INNOVATION CENTER P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAA-AF-05-LED-U-T4FT-7027
Description: GALLEONNAIRE AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2700K CCT 1050mA LIGHTSQUARE WITH 16 LEDS EACH AND Type IV
Forward Throw OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25915.8 lumens
Efficiency: N/A
Efficacy: 92.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B3 - U0 - G4

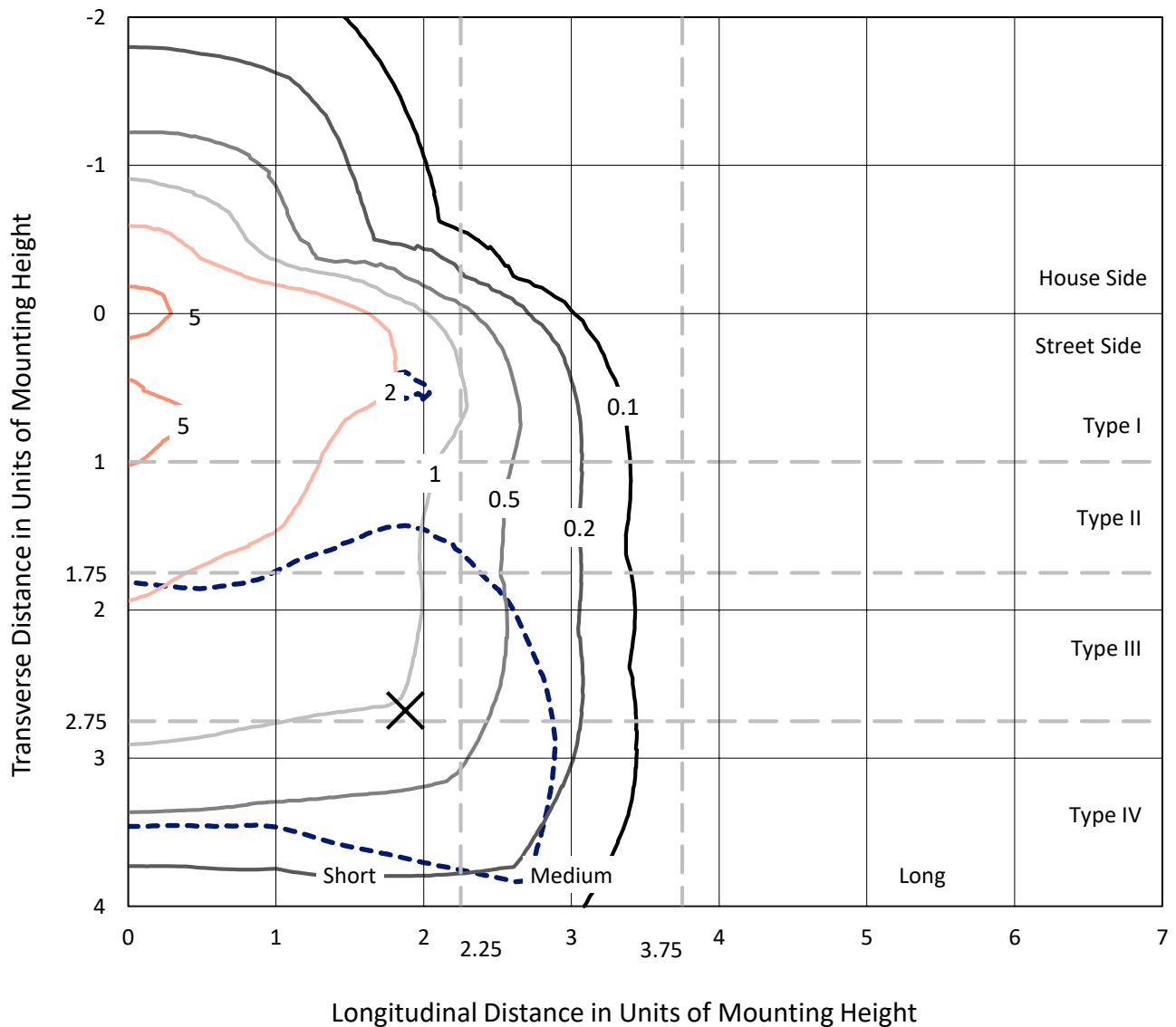
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

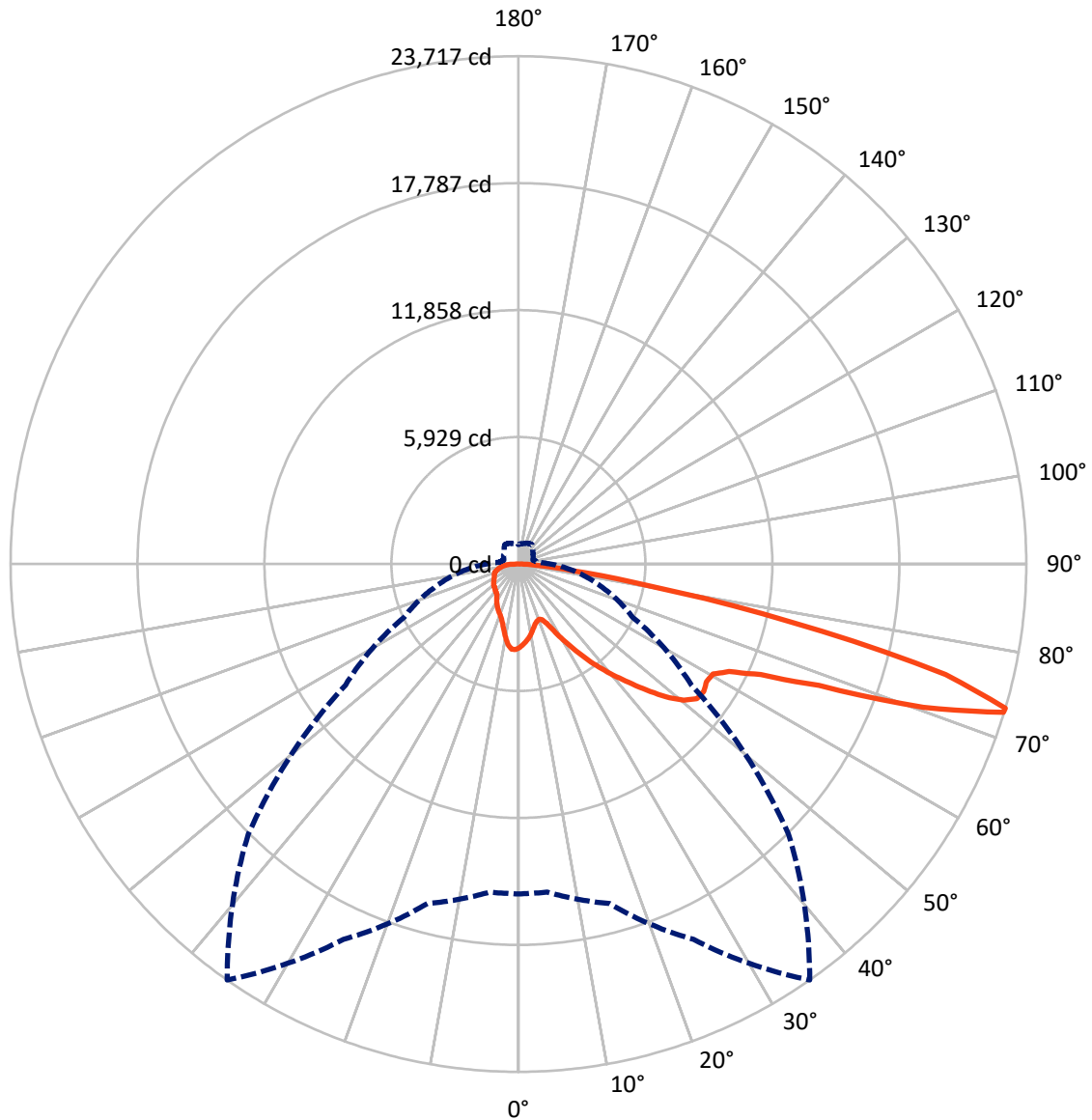
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4942.9	0.0	4942.9
	% Fixture	19.1	0.0	19.1
Street Side	Lumens	20972.9	0.0	20972.9
	% Fixture	80.9	0.0	80.9
Total	Lumens	25915.8	0.0	25915.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	354.1	1.4
10°-20°	883.8	3.4
20°-30°	1428.8	5.5
30°-40°	2395.8	9.2
40°-50°	3693.1	14.3
50°-60°	4954.7	19.1
60°-70°	6600.6	25.5
70°-80°	5034.3	19.4
80°-90°	570.6	2.2
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°	25915.8	100.0
0°-180°	25915.8	100.0

Coefficient of Utilization



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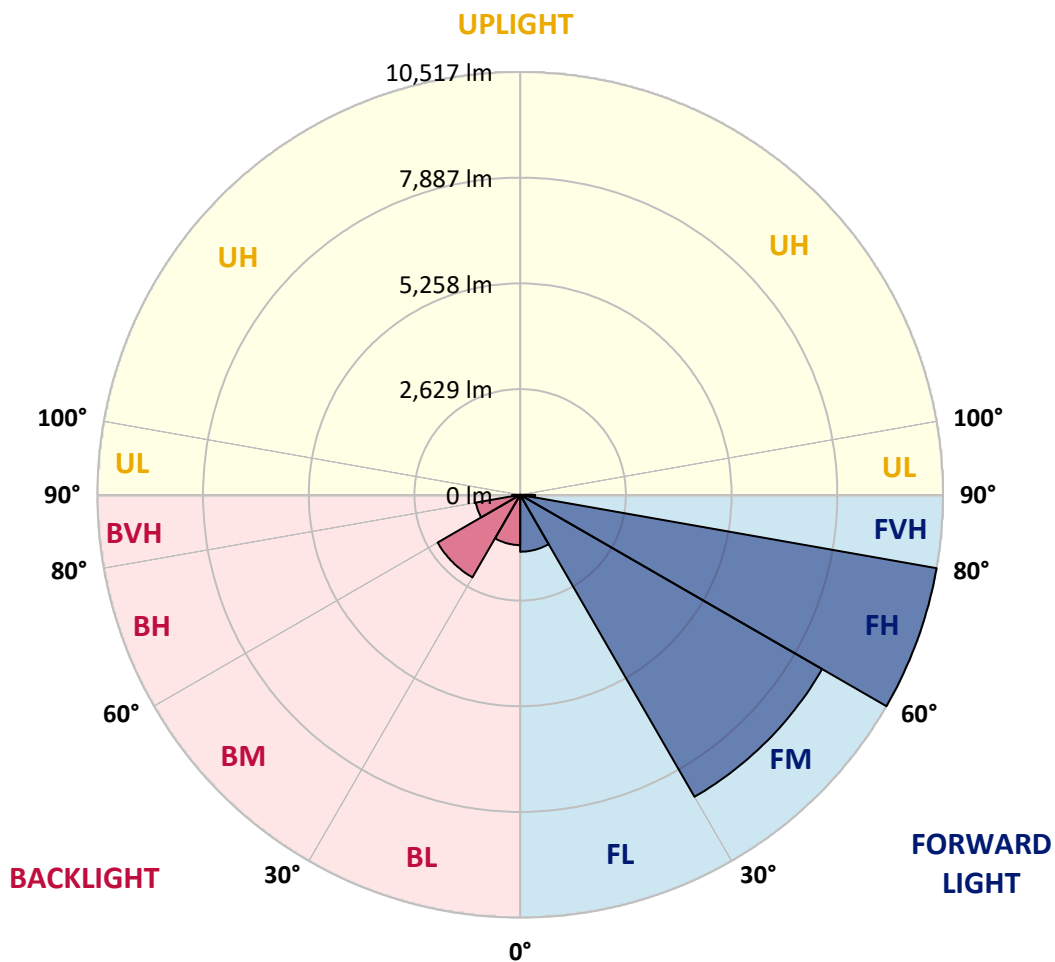
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1415.9	5.5			
FM	(30°-60°)	8671.6	33.5			
FH	(60°-80°)	10516.6	40.6			G4/12000
FVH	(80°-90°)	368.8	1.4			G3/500
BL	(0°-30°)	1250.8	4.8	B3/2500		
BM	(30°-60°)	2372.0	9.2	B2/2500		
BH	(60°-80°)	1118.3	4.3	B3/2500		G3/2500
BVH	(80°-90°)	201.8	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G4

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	3911.5	3911.5	3911.5	3911.5	3911.5	3911.5	3911.5	3911.5	3911.5	3911.5	3911.5
2.5°	3757.2	3764.6	3755.9	3767.1	3785.8	3805.7	3819.4	3839.3	3861.7	3892.8	3900.3
5°	3580.5	3591.7	3591.7	3611.6	3647.7	3680.0	3709.9	3742.2	3789.5	3843.0	3864.2
7.5°	3386.3	3392.5	3403.7	3433.6	3485.9	3531.9	3574.2	3626.5	3691.2	3762.2	3799.5
10°	3152.3	3161.1	3178.5	3220.8	3291.7	3355.2	3416.2	3488.4	3570.5	3658.9	3706.1
12.5°	2986.8	2984.3	2991.8	3022.9	3085.1	3162.3	3250.7	3342.8	3443.6	3546.9	3604.1
15°	2930.8	2917.1	2888.5	2881.0	2914.6	2991.8	3093.8	3207.1	3327.8	3452.3	3523.2
17.5°	2965.7	2942.0	2863.6	2806.4	2801.4	2859.9	2968.2	3095.1	3234.5	3386.3	3474.7
20°	3184.7	3128.7	2935.8	2802.6	2756.6	2785.2	2879.8	3014.2	3178.5	3380.1	3493.3
22.5°	3708.6	3626.5	3217.1	2969.4	2813.8	2779.0	2849.9	2993.0	3184.7	3457.2	3601.6
25°	4471.5	4354.5	3699.9	3385.1	3064.0	2878.5	2894.7	3041.6	3273.1	3636.5	3810.7
27.5°	5073.9	4997.9	4330.9	3971.2	3519.5	3147.4	3040.3	3163.5	3453.5	3930.2	4108.1
30°	5432.3	5386.2	5005.4	4635.8	4100.7	3575.5	3319.1	3392.5	3736.0	4337.1	4484.0
32.5°	5847.9	5820.6	5633.9	5294.1	4727.9	4138.0	3760.9	3734.8	4114.3	4826.2	4893.4
35°	6278.5	6269.8	6160.3	5916.4	5401.2	4879.7	4347.1	4170.4	4526.3	5334.0	5291.7
37.5°	6679.3	6664.3	6600.9	6459.0	6105.6	5676.2	4944.4	4617.1	4970.6	5819.3	5631.4
40°	7417.3	7300.3	7082.5	6975.5	6817.4	6347.0	5418.6	5034.0	5431.0	6282.3	5925.1
42.5°	8317.1	8126.6	7720.9	7574.1	7551.7	6875.9	5742.2	5438.5	5895.2	6741.5	6213.8
45°	9025.2	8846.0	8496.3	8310.8	8393.0	7355.0	6067.0	5870.3	6373.1	7223.1	6511.3
47.5°	9780.6	9499.3	9036.4	9092.4	9271.6	7808.1	6398.0	6334.6	6897.1	7762.0	6880.9
50°	9808.0	9592.7	9389.8	9724.6	10003.4	8225.0	6812.4	6821.2	7538.0	8440.3	7372.5
52.5°	9239.2	9193.2	9515.5	10041.9	10443.9	8554.8	7284.1	7323.9	8358.1	9219.3	7912.6
55°	9040.1	8987.8	9360.0	9931.2	10503.7	8827.3	7795.6	7867.8	9350.0	10040.7	8439.0
57.5°	9525.5	9409.7	9434.6	9878.9	10358.0	9126.0	8353.1	8498.8	10427.7	10758.8	8777.5
60°	10882.0	10634.3	10163.9	10152.7	10436.5	9574.0	8997.8	9175.8	11547.8	11102.3	8645.6
62.5°	12784.8	12537.2	11656.1	11082.4	11040.0	10313.2	9789.3	9836.6	12194.9	10636.8	7840.4
65°	14844.5	14623.0	13638.6	12828.4	12437.6	11537.8	10709.0	10131.5	11983.4	9356.2	6431.6
67.5°	17344.7	17107.0	16260.8	15512.8	15137.0	13514.1	11354.9	9849.0	10640.6	7248.0	4623.4
70°	19093.3	18850.6	18517.1	19123.1	20042.8	16365.3	11438.3	8700.4	7947.4	4817.5	2782.7
72.5°	16812.1	16698.8	17307.4	19859.9	23690.5	18095.2	10339.4	6334.6	4615.9	2557.5	1610.4
73°	15403.3	15378.4	16416.3	19343.4	23716.6	17828.8	9857.8	5887.8	3958.8	2262.5	1472.3
75°	6955.6	7155.9	9430.9	14774.8	20605.3	14691.4	6938.1	3377.6	2236.4	1563.1	1111.3
77.5°	1671.4	1741.1	2950.7	7016.5	13012.6	8755.1	3143.6	1670.1	1429.9	1103.9	811.4
80°	711.9	735.5	1136.2	2592.3	6126.7	3525.7	1448.6	1118.8	989.4	770.4	568.7
82.5°	395.8	420.6	644.7	1176.1	2472.8	1202.2	883.6	779.1	650.9	464.2	369.6
85°	224.0	237.7	377.1	657.1	1047.9	482.9	528.9	517.7	367.1	238.9	181.7
87.5°	105.8	114.5	181.7	304.9	410.7	189.2	268.8	296.2	230.2	145.6	94.6
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):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3911.5	3911.5	3911.5	3911.5	3911.5	3911.5	3911.5	3911.5	3911.5	3911.5
2.5°	3909.0	3931.4	3957.5	3971.2	3983.7	3998.6	4013.5	4013.5	4016.0	4017.3
5°	3881.6	3927.7	3968.7	3986.2	3989.9	3989.9	3986.2	3966.3	3948.8	3956.3
7.5°	3824.4	3891.6	3926.4	3920.2	3872.9	3818.2	3772.1	3716.1	3687.5	3682.5
10°	3742.2	3819.4	3825.6	3763.4	3646.4	3529.4	3432.4	3337.8	3293.0	3281.8
12.5°	3651.4	3722.3	3682.5	3554.3	3366.4	3195.9	3072.7	2976.9	2934.6	2923.4
15°	3578.0	3626.5	3525.7	3324.1	3087.6	2907.2	2805.1	2734.2	2704.3	2695.6
17.5°	3539.4	3549.3	3365.2	3092.6	2841.2	2690.6	2627.2	2593.6	2582.4	2576.1
20°	3558.1	3488.4	3212.1	2877.3	2639.6	2533.8	2518.9	2510.2	2507.7	2504.0
22.5°	3651.4	3469.7	3071.4	2673.2	2462.9	2416.8	2429.3	2428.0	2425.5	2423.1
25°	3818.2	3485.9	2934.6	2479.1	2314.8	2304.8	2327.2	2327.2	2317.3	2317.3
27.5°	4038.4	3519.5	2781.5	2294.9	2180.4	2181.6	2199.0	2194.1	2182.9	2175.4
30°	4307.2	3540.6	2602.3	2129.4	2054.7	2049.7	2054.7	2033.5	1999.9	1997.4
32.5°	4582.3	3514.5	2394.4	1982.5	1921.5	1910.3	1906.6	1876.7	1838.1	1826.9
35°	4831.2	3418.7	2182.9	1865.5	1794.6	1769.7	1787.1	1777.2	1742.3	1733.6
37.5°	5012.9	3240.7	1992.5	1762.2	1703.7	1697.5	1708.7	1712.4	1671.4	1662.7
40°	5134.8	2999.3	1829.4	1675.1	1686.3	1662.7	1625.3	1599.2	1586.7	1583.0
42.5°	5233.2	2747.9	1692.5	1634.0	1690.0	1621.6	1540.7	1498.4	1520.8	1530.7
45°	5346.4	2502.7	1578.0	1583.0	1671.4	1574.3	1482.2	1441.1	1449.9	1452.3
47.5°	5502.0	2204.0	1454.8	1500.9	1609.2	1541.9	1446.1	1387.6	1346.6	1327.9
50°	5717.3	1850.6	1326.6	1408.8	1548.2	1518.3	1390.1	1327.9	1252.0	1234.6
52.5°	5866.6	1520.8	1220.9	1331.6	1493.4	1471.0	1345.3	1264.4	1184.8	1169.8
55°	5785.7	1263.2	1128.8	1245.8	1421.2	1412.5	1308.0	1199.7	1137.5	1125.0
57.5°	5381.3	1100.1	1057.8	1164.9	1332.9	1362.7	1258.2	1144.9	1100.1	1091.4
60°	4609.7	998.1	1013.0	1110.1	1260.7	1313.0	1208.4	1115.1	1085.2	1079.0
62.5°	3576.7	929.6	979.4	1070.3	1204.7	1278.1	1181.0	1111.3	1100.1	1092.7
65°	2562.4	874.9	943.3	1030.5	1153.7	1245.8	1171.1	1106.4	1108.9	1102.6
67.5°	1741.1	826.4	899.8	985.7	1103.9	1217.1	1157.4	1088.9	1120.1	1112.6
70°	1218.4	779.1	848.8	928.4	1041.7	1177.3	1132.5	1062.8	1060.3	1030.5
72.5°	950.8	716.8	779.1	848.8	962.0	1121.3	1082.7	1004.3	963.3	932.1
73°	907.2	701.9	761.6	831.3	944.6	1107.6	1069.0	988.1	942.1	913.5
75°	750.4	637.2	691.9	754.2	869.9	1042.9	1001.8	914.7	856.2	838.8
77.5°	589.9	545.1	597.4	653.4	766.6	948.3	902.3	818.9	786.5	771.6
80°	436.8	451.8	497.8	547.6	664.6	847.5	806.4	723.1	867.4	831.3
82.5°	307.4	342.2	384.6	429.4	557.5	749.2	699.4	613.5	634.7	527.7
85°	181.7	224.0	263.8	302.4	402.0	621.0	577.5	489.1	400.7	382.1
87.5°	105.8	124.5	135.7	175.5	276.3	467.9	407.0	362.2	207.8	140.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)