

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: McGRAW-EDISON

Report Number: P452563

Luminaire Tested: **GALN-SA3C-730-U-T3R**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P452563  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-8)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3C-730-U-T3R  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III  
ROADWAY OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19560 lumens  
Efficiency: N/A  
Efficacy: 122.3 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type IV - Medium  
BUG Rating: B2 - U0 - G3

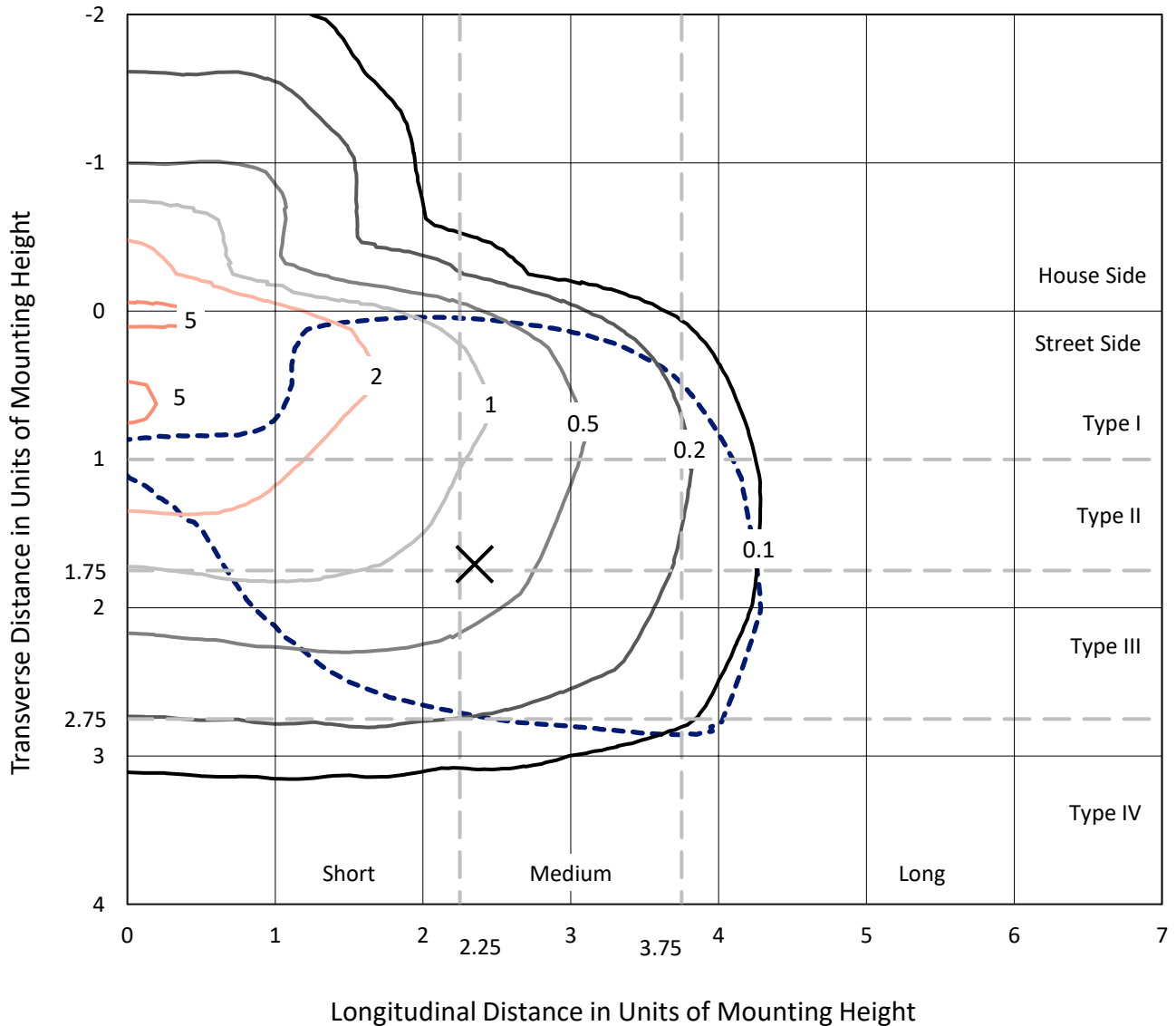
Input Watts (W): 160  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



REPORT NUMBER: P452563  
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### Iso-Footcandle Lines of Horizontal Illumination

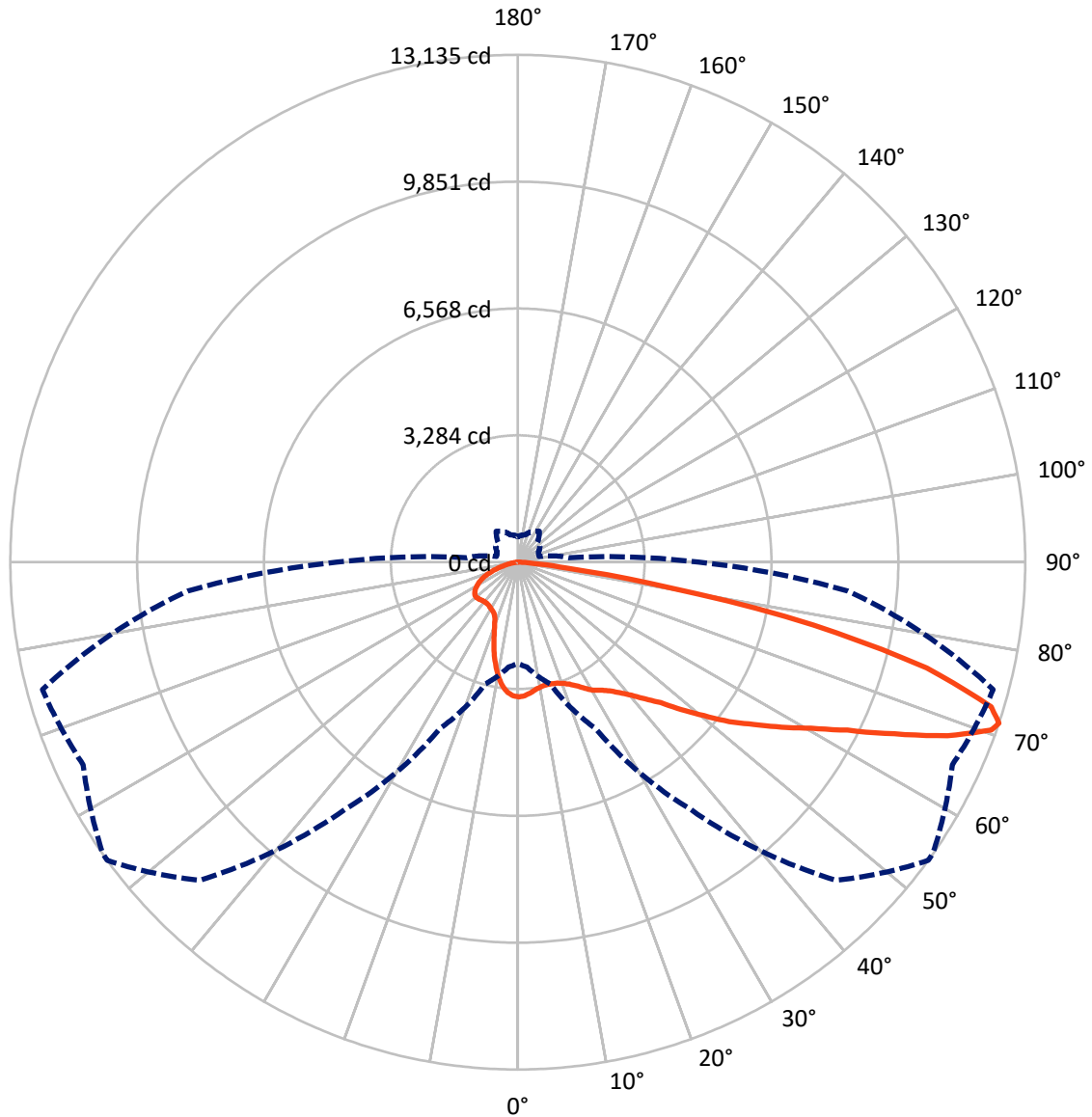
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.6 fc  
 Type IV - Medium - N/A

REPORT NUMBER: P452563  
CATALOG NUMBER: GALN-SA3C-730-U-T3R

### Luminous Intensity Polar Plot



— Vertical Plane Through 54-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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CATALOG NUMBER: GALN-SA3C-730-U-T3R

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	3531.4	0.0	3531.4
	% Fixture	18.1	0.0	18.1
<b>Street Side</b>	Lumens	16028.6	0.0	16028.6
	% Fixture	81.9	0.0	81.9
<b>Total</b>	Lumens	19560.0	0.0	19560.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	311.0	1.6
10°-20°	821.2	4.2
20°-30°	1367.3	7.0
30°-40°	2021.8	10.3
40°-50°	2847.8	14.6
50°-60°	3813.3	19.5
60°-70°	4806.3	24.6
70°-80°	3282.7	16.8
80°-90°	288.7	1.5
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°	19560.0	100.0
0°-180°	19560.0	100.0

**Coefficient of Utilization**



REPORT NUMBER: P452563

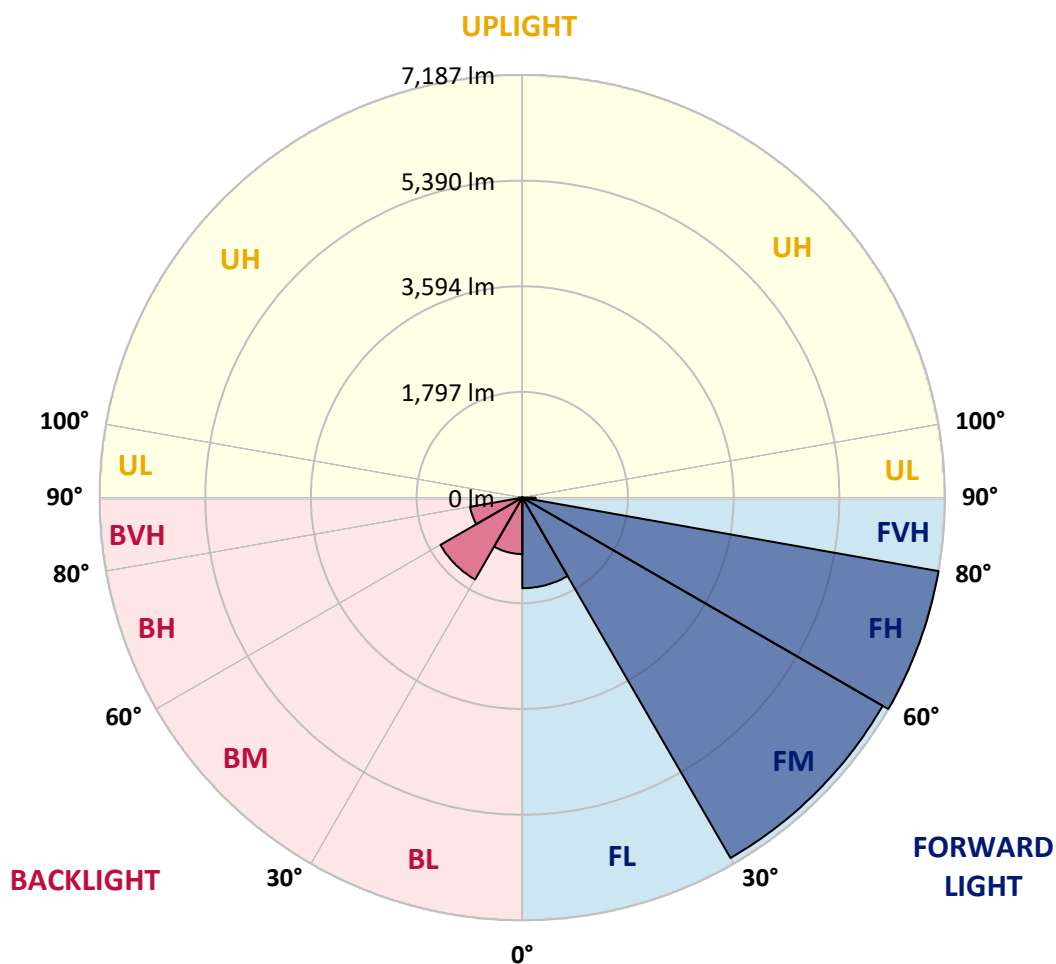
CATALOG NUMBER: GALN-SA3C-730-U-T3R

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1539.7	7.9			
FM	(30°-60°)	7076.1	36.2			
FH	(60°-80°)	7187.1	36.7			G3/7500
FVH	(80°-90°)	225.7	1.2			G3/500
BL	(0°-30°)	959.8	4.9	B2/1000		
BM	(30°-60°)	1606.7	8.2	B2/2500		
BH	(60°-80°)	901.9	4.6	B2/1000		G2/1000
BVH	(80°-90°)	63.0	0.3			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G3**

Type IV Medium





REPORT NUMBER: P452563

CATALOG NUMBER: GALN-SA3C-730-U-T3R

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3489.8	3489.8	3489.8	3489.8	3489.8	3489.8	3489.8	3489.8	3489.8	3489.8	3489.8
2.5°	3371.5	3387.3	3391.5	3402.1	3424.3	3442.2	3460.2	3458.1	3483.5	3494.0	3503.5
5°	3221.4	3225.7	3241.5	3262.6	3301.7	3351.4	3400.0	3401.0	3463.4	3513.0	3537.3
7.5°	3111.5	3125.3	3135.8	3158.0	3199.2	3253.1	3330.3	3336.6	3447.5	3545.8	3597.6
10°	3039.7	3055.6	3067.2	3094.6	3135.8	3196.1	3279.5	3291.2	3435.9	3597.6	3688.4
12.5°	2974.2	2990.0	3000.6	3036.5	3090.4	3164.4	3258.4	3272.1	3440.1	3657.8	3787.7
15°	3014.3	3027.0	3022.8	3033.4	3069.3	3153.8	3266.9	3280.6	3456.0	3715.9	3886.0
17.5°	3192.9	3203.5	3168.6	3128.5	3111.5	3173.9	3293.3	3308.1	3487.7	3776.1	3986.4
20°	3456.0	3484.5	3408.4	3318.6	3237.3	3245.7	3348.2	3364.1	3532.1	3836.3	4088.9
22.5°	3798.3	3819.4	3726.5	3578.5	3428.5	3351.4	3430.6	3440.1	3598.6	3914.5	4200.9
25°	4200.9	4213.5	4084.6	3894.5	3677.9	3532.1	3543.7	3560.6	3708.5	4003.3	4300.2
27.5°	4591.8	4631.9	4483.0	4250.5	3965.2	3722.2	3699.0	3709.6	3827.9	4052.9	4368.8
30°	5055.6	5052.4	4895.0	4625.6	4260.0	3929.3	3845.9	3843.7	3892.3	4077.2	4418.5
32.5°	5425.4	5468.7	5314.5	5020.7	4597.1	4143.8	3947.3	3943.1	3942.0	4119.5	4492.5
35°	5845.9	5852.2	5710.7	5414.8	4961.6	4413.2	4088.9	4067.7	4043.4	4210.4	4592.8
37.5°	6222.0	6251.6	6121.7	5789.9	5319.7	4693.2	4283.3	4269.5	4195.6	4367.8	4753.4
40°	6515.8	6537.9	6459.8	6143.9	5672.6	4995.4	4530.5	4505.1	4415.3	4625.6	4967.9
42.5°	6611.9	6657.3	6688.0	6532.7	6078.3	5353.6	4834.8	4803.1	4734.4	5016.5	5215.1
45°	6619.3	6691.1	6852.8	6860.2	6486.2	5782.5	5189.8	5167.6	5162.3	5517.3	5562.8
47.5°	6563.3	6636.2	6907.7	7054.6	6849.6	6215.7	5702.2	5667.3	5670.5	6136.5	5952.6
50°	6428.1	6514.7	6844.3	7179.3	7133.8	6665.8	6243.2	6231.5	6297.1	6843.3	6357.3
52.5°	6173.4	6278.0	6778.8	7257.5	7345.2	7053.5	6858.1	6825.3	6991.2	7610.3	6800.0
55°	5468.7	5626.1	6539.0	7300.8	7545.9	7424.4	7411.7	7470.9	7690.6	8447.1	7287.0
57.5°	5101.0	5219.4	6018.1	7308.2	7799.5	7855.5	8058.3	8073.1	8457.7	9335.7	7837.5
60°	4900.3	5004.9	5732.9	7259.6	8153.4	8389.0	8719.7	8772.6	9206.8	10298.2	8408.0
62.5°	4724.9	4814.7	5561.7	7091.6	8552.8	9180.4	9576.6	9602.0	10057.3	11361.1	8971.2
65°	4311.8	4414.3	5217.3	6923.6	8897.2	10169.3	10713.4	10683.9	10962.8	12278.2	9324.1
67.5°	3755.0	3884.9	4573.8	6343.5	9067.3	11250.2	11994.0	11957.0	11856.6	12879.4	9425.5
70°	3043.9	3113.7	3750.8	5340.9	8388.0	11817.5	13005.1	12966.0	12410.3	12958.6	8945.8
71°	2619.2	2728.0	3265.8	4743.9	7822.7	11644.3	13135.1	13124.5	12411.3	12739.9	8584.5
72.5°	2044.4	2111.0	2586.4	3675.7	6648.9	10659.6	12813.9	12854.0	12141.9	12132.4	7839.6
75°	1293.2	1322.8	1622.9	2163.8	3648.3	7549.1	10938.5	11047.3	10781.1	9930.5	5830.1
77.5°	751.2	789.2	972.0	1275.3	1576.4	4097.3	7826.9	7945.3	7491.0	5467.7	2386.8
80°	437.4	479.7	640.3	740.6	723.7	1520.4	3985.3	4187.1	3243.6	1380.9	669.9
82.5°	243.0	271.5	450.1	451.1	385.6	496.6	1254.1	1312.2	925.5	556.8	273.6
85°	176.4	199.7	290.6	263.1	184.9	213.4	436.4	457.5	374.0	234.6	88.8
87.5°	62.3	88.8	159.5	126.8	50.7	44.4	125.7	102.5	95.1	65.5	20.1
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°	3489.8	3489.8	3489.8	3489.8	3489.8	3489.8	3489.8	3489.8	3489.8	3489.8	3489.8
2.5°	3508.8	3510.9	3500.4	3481.3	3462.3	3438.0	3410.6	3389.4	3379.9	3378.9	3377.8
5°	3546.8	3552.1	3512.0	3452.8	3387.3	3307.0	3238.3	3160.1	3140.1	3108.4	3117.9
7.5°	3608.1	3605.0	3525.7	3400.0	3246.8	3076.7	2933.0	2849.5	2762.9	2738.6	2739.6
10°	3695.8	3675.7	3525.7	3292.2	3036.5	2784.0	2583.3	2456.5	2387.8	2330.8	2309.6
12.5°	3788.8	3738.1	3491.9	3141.1	2766.1	2456.5	2240.9	2069.8	2025.4	1978.9	1980.0
15°	3877.5	3793.0	3425.3	2928.8	2474.4	2106.8	1897.6	1795.1	1781.3	1786.6	1785.6
17.5°	3957.8	3832.1	3323.9	2692.1	2134.2	1806.7	1695.8	1703.2	1740.1	1766.6	1769.7
20°	4039.2	3855.4	3172.8	2375.1	1813.0	1625.0	1629.2	1687.3	1743.3	1779.2	1784.5
22.5°	4116.3	3865.9	2995.3	2068.7	1580.6	1547.8	1610.2	1672.5	1727.5	1762.3	1767.6
25°	4167.0	3841.6	2743.9	1748.6	1466.5	1520.4	1585.9	1638.7	1685.2	1721.1	1729.6
27.5°	4180.8	3763.4	2432.2	1489.7	1413.7	1494.0	1554.2	1593.3	1629.2	1663.0	1669.4
30°	4173.4	3648.3	2089.9	1337.6	1383.0	1463.3	1509.8	1538.3	1581.7	1608.1	1613.4
32.5°	4161.8	3514.1	1732.7	1256.2	1357.7	1434.8	1462.3	1487.6	1486.6	1476.0	1483.4
35°	4166.0	3353.5	1443.3	1207.6	1335.5	1413.7	1436.9	1405.2	1314.4	1310.1	1305.9
37.5°	4188.2	3195.0	1233.0	1173.8	1323.9	1410.5	1423.2	1277.4	1197.1	1160.1	1150.6
40°	4245.2	3010.1	1094.6	1148.5	1322.8	1434.8	1360.8	1212.9	1058.7	986.8	981.5
42.5°	4321.3	2828.4	1010.1	1132.6	1335.5	1471.8	1335.5	1122.1	954.1	911.8	905.5
45°	4434.4	2620.3	963.6	1125.2	1354.5	1485.5	1327.0	1055.5	911.8	878.0	878.0
47.5°	4562.2	2421.6	938.2	1119.9	1378.8	1476.0	1252.0	1034.4	891.7	896.0	916.0
50°	4689.0	2249.4	919.2	1108.3	1399.9	1470.7	1221.4	1033.3	897.0	950.9	986.8
52.5°	4835.8	2127.9	896.0	1089.3	1399.9	1436.9	1211.9	1054.4	911.8	927.7	943.5
55°	5013.3	2089.9	866.4	1048.1	1374.6	1352.4	1206.6	1085.1	922.4	885.4	891.7
57.5°	5247.9	2151.1	837.8	996.3	1316.5	1264.7	1204.5	1093.5	898.1	867.4	861.1
60°	5520.5	2272.6	829.4	943.5	1237.2	1189.7	1191.8	1069.2	864.3	832.6	837.8
62.5°	5711.7	2345.5	824.1	903.4	1150.6	1107.3	1161.2	1039.6	849.5	822.0	827.3
65°	5711.7	2256.8	775.5	842.1	1038.6	1008.0	1124.2	1002.7	830.5	798.8	793.5
67.5°	5495.1	1997.9	701.6	750.2	915.0	894.9	1072.4	958.3	801.9	777.6	764.9
70°	4930.9	1515.1	608.6	642.4	758.6	776.6	1005.8	898.1	754.4	724.8	705.8
71°	4682.6	1319.6	569.5	587.4	698.4	724.8	974.1	872.7	733.2	691.0	657.2
72.5°	4204.0	1111.5	510.3	517.7	597.0	644.5	907.6	824.1	693.1	632.9	594.8
75°	3194.0	811.4	411.0	406.8	441.6	511.4	768.1	734.3	607.5	526.2	504.0
77.5°	1379.9	441.6	307.5	310.6	300.1	387.8	604.3	630.8	520.9	427.9	407.8
80°	418.4	254.6	210.3	214.5	200.7	259.9	425.8	494.5	418.4	332.8	305.3
82.5°	214.5	152.1	143.7	141.6	127.8	146.9	257.8	338.1	299.0	208.1	183.8
85°	93.0	81.4	70.8	68.7	60.2	52.8	91.9	169.0	158.5	116.2	110.9
87.5°	23.2	21.1	13.7	12.7	7.4	1.1	0.0	0.0	0.0	0.0	0.0
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)