

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: P452795

Luminaire Tested: **GALN-SA3D-730-U-T3R**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452795
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-SA3D-730-U-T3R
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
ROADWAY OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21522 lumens
Efficiency: N/A
Efficacy: 117.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Medium
BUG Rating: B3 - U0 - G4

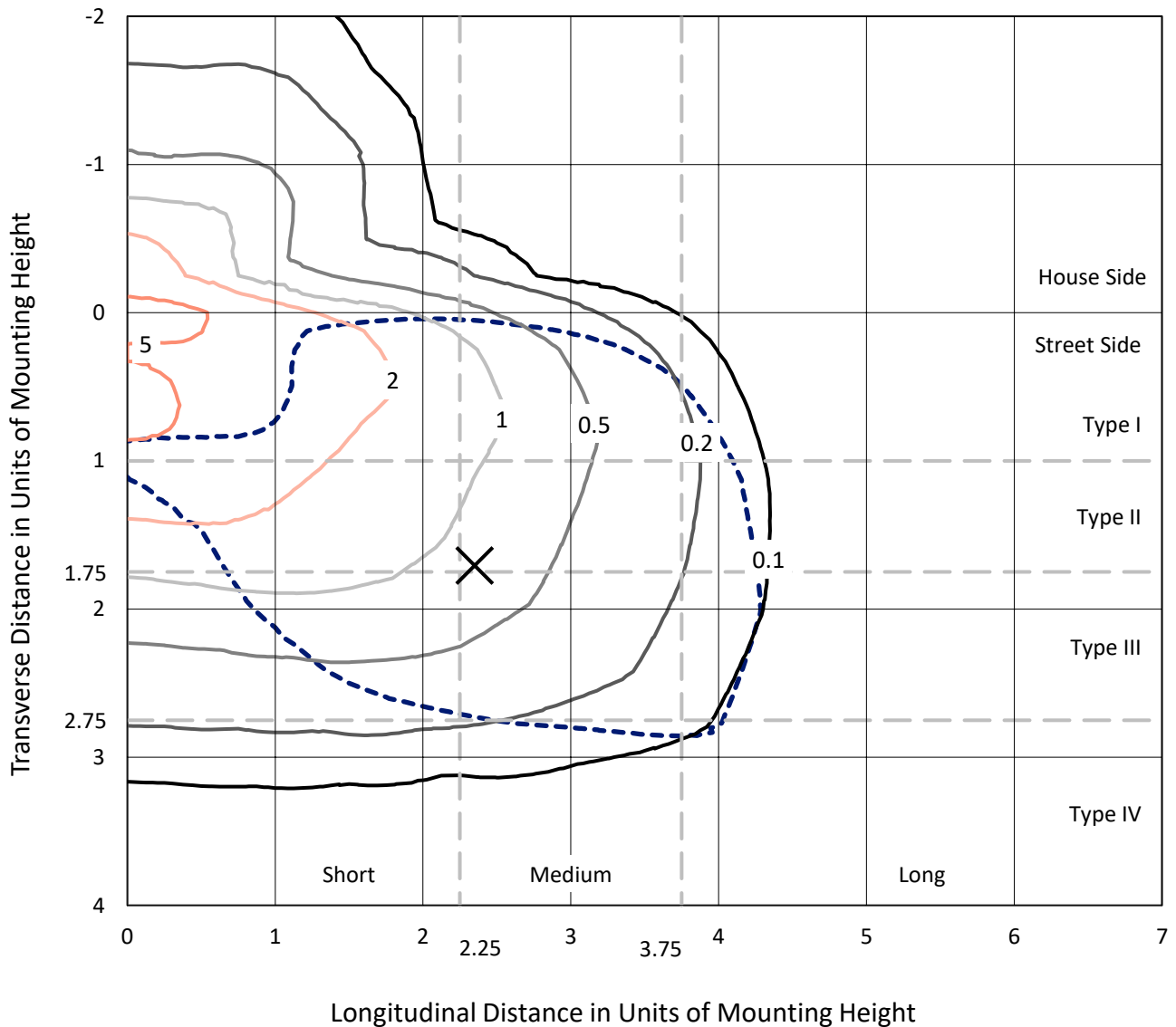
Input Watts (W): 184
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P452795
 CATALOG NUMBER: GALN-SA3D-730-U-T3R

Iso-Footcandle Lines of Horizontal Illumination

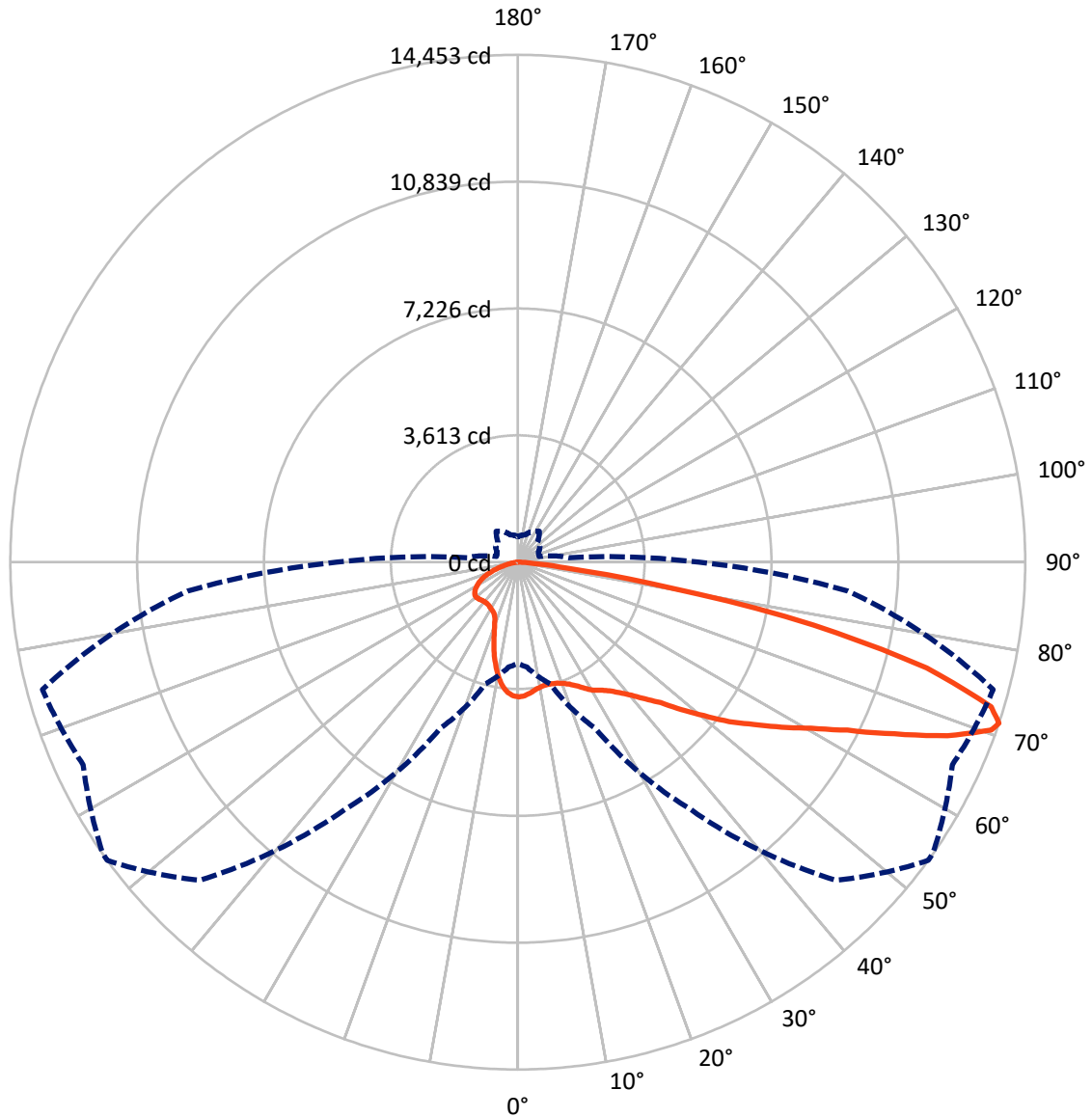
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
 Type IV - Medium - N/A

REPORT NUMBER: P452795
CATALOG NUMBER: GALN-SA3D-730-U-T3R

Luminous Intensity Polar Plot



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

REPORT NUMBER: P452795

CATALOG NUMBER: GALN-SA3D-730-U-T3R

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3885.7	0.0	3885.7
	% Fixture	18.1	0.0	18.1
Street Side	Lumens	17636.3	0.0	17636.3
	% Fixture	81.9	0.0	81.9
Total	Lumens	21522.0	0.0	21522.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.2	1.6
10°-20°	903.5	4.2
20°-30°	1504.4	7.0
30°-40°	2224.6	10.3
40°-50°	3133.4	14.6
50°-60°	4195.8	19.5
60°-70°	5288.4	24.6
70°-80°	3612.0	16.8
80°-90°	317.7	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°	21522.0	100.0
0°-180°	21522.0	100.0

Coefficient of Utilization



REPORT NUMBER: P452795

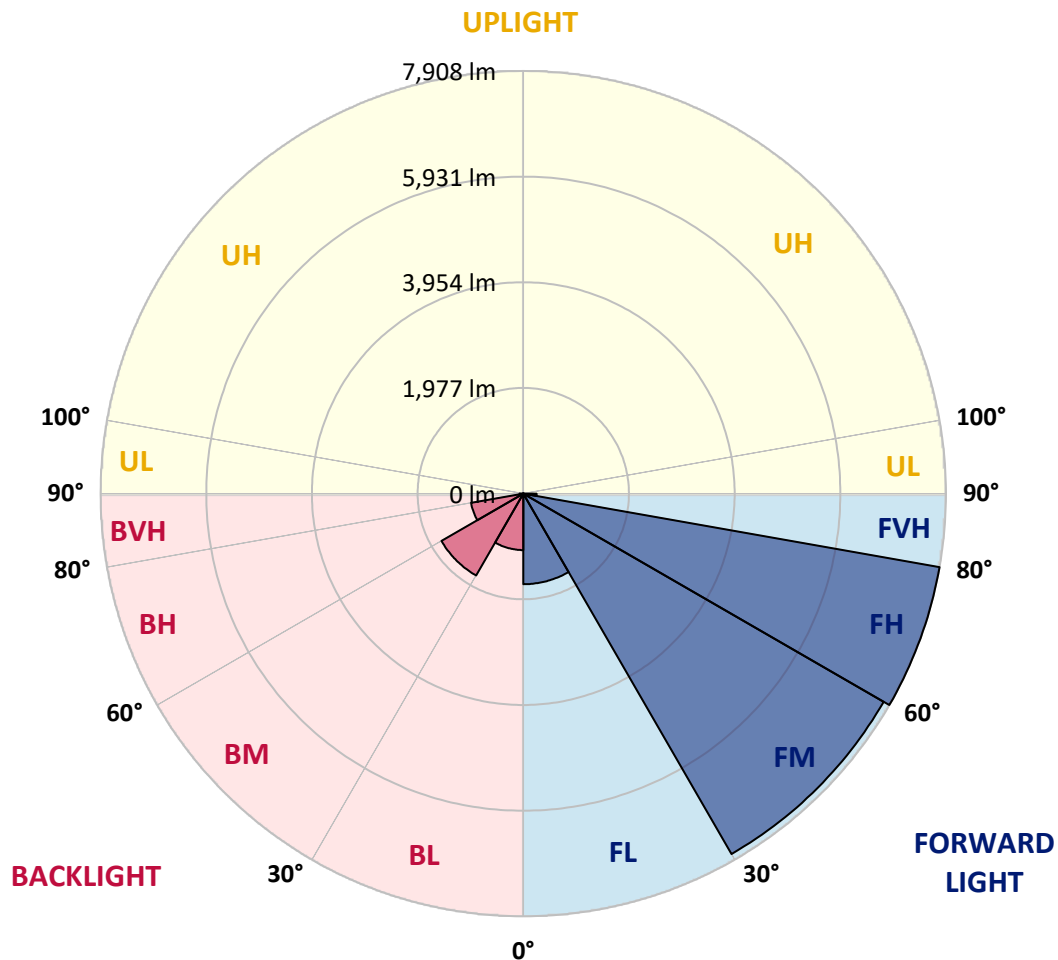
CATALOG NUMBER: GALN-SA3D-730-U-T3R

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1694.1	7.9			
FM	(30°-60°)	7785.9	36.2			
FH	(60°-80°)	7908.0	36.7			G4/12000
FVH	(80°-90°)	248.3	1.2			G3/500
BL	(0°-30°)	1056.0	4.9	B3/2500		
BM	(30°-60°)	1767.9	8.2	B2/2500		
BH	(60°-80°)	992.4	4.6	B2/1000		G2/1000
BVH	(80°-90°)	69.4	0.3			G1/100
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 Medium





REPORT NUMBER: P452795

CATALOG NUMBER: GALN-SA3D-730-U-T3R

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	54°	55°	65°	75°	85°
0°	3839.8	3839.8	3839.8	3839.8	3839.8	3839.8	3839.8	3839.8	3839.8	3839.8	3839.8
2.5°	3709.6	3727.1	3731.7	3743.4	3767.8	3787.5	3807.3	3805.0	3832.9	3844.5	3855.0
5°	3544.6	3549.2	3566.6	3589.9	3632.9	3687.6	3741.0	3742.2	3810.8	3865.4	3892.2
7.5°	3423.7	3438.8	3450.4	3474.8	3520.1	3579.4	3664.3	3671.3	3793.3	3901.5	3958.4
10°	3344.6	3362.0	3374.8	3405.1	3450.4	3516.7	3608.5	3621.3	3780.6	3958.4	4058.4
12.5°	3272.5	3290.0	3301.6	3341.1	3400.4	3481.8	3585.2	3600.4	3785.2	4024.7	4167.7
15°	3316.7	3330.7	3326.0	3337.6	3377.2	3470.2	3594.5	3609.7	3802.6	4088.6	4275.8
17.5°	3513.2	3524.8	3486.4	3442.3	3423.7	3492.2	3623.6	3639.9	3837.5	4154.9	4386.2
20°	3802.6	3834.0	3750.3	3651.5	3562.0	3571.3	3684.1	3701.5	3886.3	4221.2	4499.0
22.5°	4179.3	4202.6	4100.3	3937.5	3772.4	3687.6	3774.7	3785.2	3959.6	4307.2	4622.2
25°	4622.2	4636.2	4494.3	4285.1	4046.8	3886.3	3899.1	3917.7	4080.5	4404.8	4731.5
27.5°	5052.4	5096.5	4932.6	4676.9	4363.0	4095.6	4070.0	4081.7	4211.9	4459.5	4807.1
30°	5562.7	5559.2	5386.0	5089.6	4687.3	4323.5	4231.6	4229.3	4282.8	4486.2	4861.7
32.5°	5969.6	6017.3	5847.5	5524.4	5058.2	4559.5	4343.2	4338.6	4337.4	4532.7	4943.1
35°	6432.3	6439.3	6283.5	5958.0	5459.3	4855.9	4499.0	4475.7	4449.0	4632.7	5053.5
37.5°	6846.2	6878.7	6735.7	6370.7	5853.3	5164.0	4712.9	4697.8	4616.4	4805.9	5230.2
40°	7169.3	7193.7	7107.7	6760.1	6241.6	5496.5	4984.9	4957.0	4858.2	5089.6	5466.2
42.5°	7275.1	7325.1	7358.8	7187.9	6688.0	5890.6	5319.7	5284.9	5209.3	5519.7	5738.3
45°	7283.3	7362.3	7540.2	7548.3	7136.8	6362.5	5710.4	5685.9	5680.1	6070.7	6120.7
47.5°	7221.6	7301.9	7600.6	7762.2	7536.7	6839.2	6274.2	6235.8	6239.3	6752.0	6549.7
50°	7072.8	7168.2	7530.9	7899.4	7849.4	7334.4	6869.4	6856.6	6928.7	7529.7	6995.0
52.5°	6792.7	6907.8	7458.8	7985.4	8081.9	7761.1	7546.0	7510.0	7692.5	8373.7	7482.1
55°	6017.3	6190.5	7194.9	8033.1	8302.8	8169.1	8155.2	8220.3	8462.1	9294.4	8018.0
57.5°	5612.7	5742.9	6621.8	8041.2	8581.8	8643.4	8866.6	8882.9	9306.1	10272.1	8623.7
60°	5391.8	5506.9	6307.9	7987.8	8971.3	9230.5	9594.4	9652.5	10130.3	11331.2	9251.4
62.5°	5198.8	5297.7	6119.6	7802.9	9410.7	10101.2	10537.2	10565.1	11066.1	12500.7	9871.1
65°	4744.3	4857.1	5740.6	7618.1	9789.7	11189.4	11788.1	11755.5	12062.4	13509.8	10259.3
67.5°	4131.6	4274.6	5032.6	6979.8	9976.9	12378.6	13197.1	13156.4	13045.9	14171.3	10370.9
70°	3349.3	3426.0	4127.0	5876.6	9229.3	13002.9	14309.6	14266.6	13655.1	14258.5	9843.2
71°	2881.9	3001.7	3593.4	5219.8	8607.4	12812.3	14452.6	14441.0	13656.3	14017.8	9445.6
72.5°	2249.5	2322.7	2845.9	4044.4	7315.8	11728.8	14099.2	14143.4	13359.8	13349.4	8626.0
75°	1422.9	1455.5	1785.6	2380.9	4014.2	8306.3	12035.7	12155.4	11862.5	10926.6	6414.9
77.5°	826.6	868.4	1069.5	1403.2	1734.5	4508.3	8612.0	8742.2	8242.4	6016.1	2626.2
80°	481.3	527.8	704.5	814.9	796.3	1672.9	4385.1	4607.1	3569.0	1519.4	737.0
82.5°	267.4	298.8	495.2	496.4	424.3	546.4	1379.9	1443.9	1018.4	612.7	301.1
85°	194.1	219.7	319.7	289.5	203.4	234.8	480.1	503.4	411.5	258.1	97.7
87.5°	68.6	97.7	175.5	139.5	55.8	48.8	138.3	112.8	104.6	72.1	22.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P452795
 CATALOG NUMBER: GALN-SA3D-730-U-T3R

CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3839.8	3839.8	3839.8	3839.8	3839.8	3839.8	3839.8	3839.8	3839.8	3839.8	3839.8
2.5°	3860.8	3863.1	3851.5	3830.5	3809.6	3782.9	3752.7	3729.4	3718.9	3717.8	3716.6
5°	3902.6	3908.4	3864.3	3799.2	3727.1	3638.7	3563.2	3477.1	3455.0	3420.2	3430.6
7.5°	3970.0	3966.6	3879.4	3741.0	3572.5	3385.3	3227.2	3135.3	3040.0	3013.3	3014.4
10°	4066.5	4044.4	3879.4	3622.4	3341.1	3063.3	2842.4	2702.9	2627.3	2564.5	2541.3
12.5°	4168.8	4113.0	3842.2	3456.2	3043.5	2702.9	2465.7	2277.4	2228.6	2177.4	2178.6
15°	4266.5	4173.5	3768.9	3222.5	2722.7	2318.1	2087.9	1975.1	1960.0	1965.8	1964.7
17.5°	4354.8	4216.5	3657.3	2962.1	2348.3	1987.9	1865.9	1874.0	1914.7	1943.8	1947.2
20°	4444.4	4242.1	3491.1	2613.4	1994.9	1788.0	1792.6	1856.6	1918.2	1957.7	1963.5
22.5°	4529.2	4253.7	3295.8	2276.2	1739.1	1703.1	1771.7	1840.3	1900.7	1939.1	1944.9
25°	4585.0	4227.0	3019.1	1924.0	1613.6	1672.9	1745.0	1803.1	1854.2	1893.8	1903.1
27.5°	4600.1	4140.9	2676.1	1639.2	1555.5	1643.8	1710.1	1753.1	1792.6	1829.8	1836.8
30°	4592.0	4014.2	2299.5	1471.8	1521.8	1610.1	1661.3	1692.6	1740.3	1769.4	1775.2
32.5°	4579.2	3866.6	1906.6	1382.3	1493.9	1578.7	1608.9	1636.8	1635.7	1624.1	1632.2
35°	4583.9	3689.9	1588.0	1328.8	1469.4	1555.5	1581.0	1546.2	1446.2	1441.5	1436.9
37.5°	4608.3	3515.5	1356.7	1291.6	1456.7	1552.0	1565.9	1405.5	1317.1	1276.5	1266.0
40°	4671.1	3312.1	1204.4	1263.7	1455.5	1578.7	1497.3	1334.6	1164.9	1085.8	1080.0
42.5°	4754.8	3112.1	1111.4	1246.2	1469.4	1619.4	1469.4	1234.6	1049.8	1003.3	996.3
45°	4879.1	2883.1	1060.2	1238.1	1490.4	1634.5	1460.1	1161.4	1003.3	966.1	966.1
47.5°	5019.8	2664.5	1032.3	1232.3	1517.1	1624.1	1377.6	1138.1	981.2	985.8	1007.9
50°	5159.3	2475.0	1011.4	1219.5	1540.4	1618.2	1343.9	1137.0	987.0	1046.3	1085.8
52.5°	5320.9	2341.3	985.8	1198.6	1540.4	1581.0	1333.4	1160.2	1003.3	1020.7	1038.1
55°	5516.2	2299.5	953.3	1153.2	1512.5	1488.0	1327.6	1193.9	1014.9	974.2	981.2
57.5°	5774.3	2366.9	921.9	1096.3	1448.5	1391.6	1325.3	1203.2	988.2	954.4	947.5
60°	6074.2	2500.6	912.6	1038.1	1361.3	1309.0	1311.3	1176.5	951.0	916.1	921.9
62.5°	6284.6	2580.8	906.8	994.0	1266.0	1218.3	1277.6	1143.9	934.7	904.4	910.3
65°	6284.6	2483.2	853.3	926.5	1142.8	1109.1	1236.9	1103.2	913.8	878.9	873.1
67.5°	6046.3	2198.3	771.9	825.4	1006.8	984.7	1180.0	1054.4	882.4	855.6	841.7
70°	5425.5	1667.1	669.6	706.8	834.7	854.5	1106.7	988.2	830.0	797.5	776.6
71°	5152.3	1452.0	626.6	646.4	768.4	797.5	1071.9	960.3	806.8	760.3	723.1
72.5°	4625.7	1223.0	561.5	569.6	656.8	709.1	998.6	906.8	762.6	696.4	654.5
75°	3514.3	892.8	452.2	447.6	485.9	562.7	845.2	808.0	668.5	578.9	554.5
77.5°	1518.3	485.9	338.3	341.8	330.2	426.6	665.0	694.0	573.1	470.8	448.7
80°	460.4	280.2	231.3	236.0	220.9	286.0	468.5	544.1	460.4	366.2	336.0
82.5°	236.0	167.4	158.1	155.8	140.7	161.6	283.7	372.0	329.0	229.0	202.3
85°	102.3	89.5	77.9	75.6	66.3	58.1	101.1	186.0	174.4	127.9	122.1
87.5°	25.6	23.3	15.1	14.0	8.1	1.2	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)