

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: P451868

Luminaire Tested: **GALN-SA2D-730-U-T4FT-HSS**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P451868  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-29)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA2D-730-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(2) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10202 lumens  
Efficiency: N/A  
Efficacy: 81.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G2

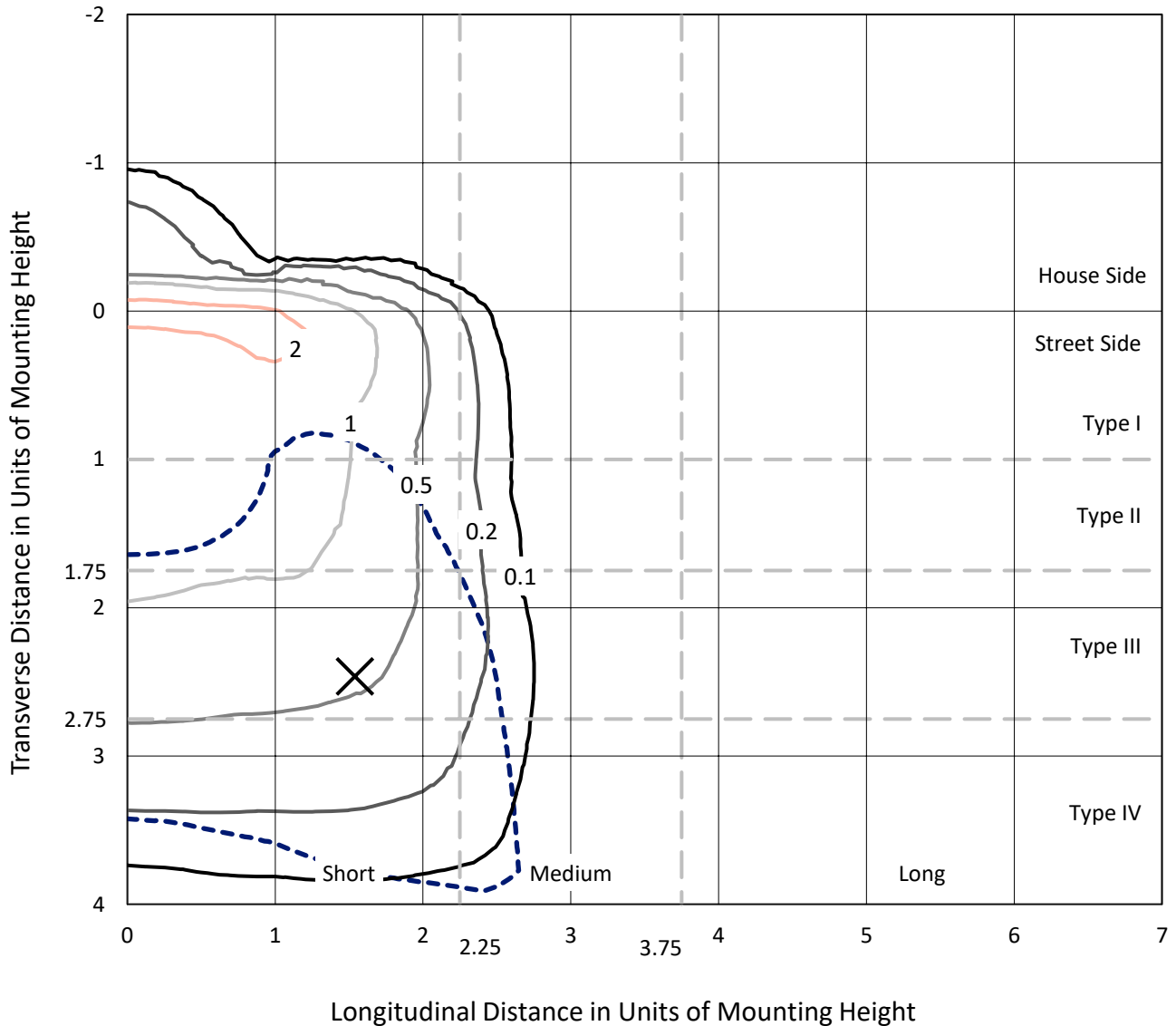
Input Watts (W): 125  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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 CATALOG NUMBER: GALN-SA2D-730-U-T4FT-HSS

### Iso-Footcandle Lines of Horizontal Illumination

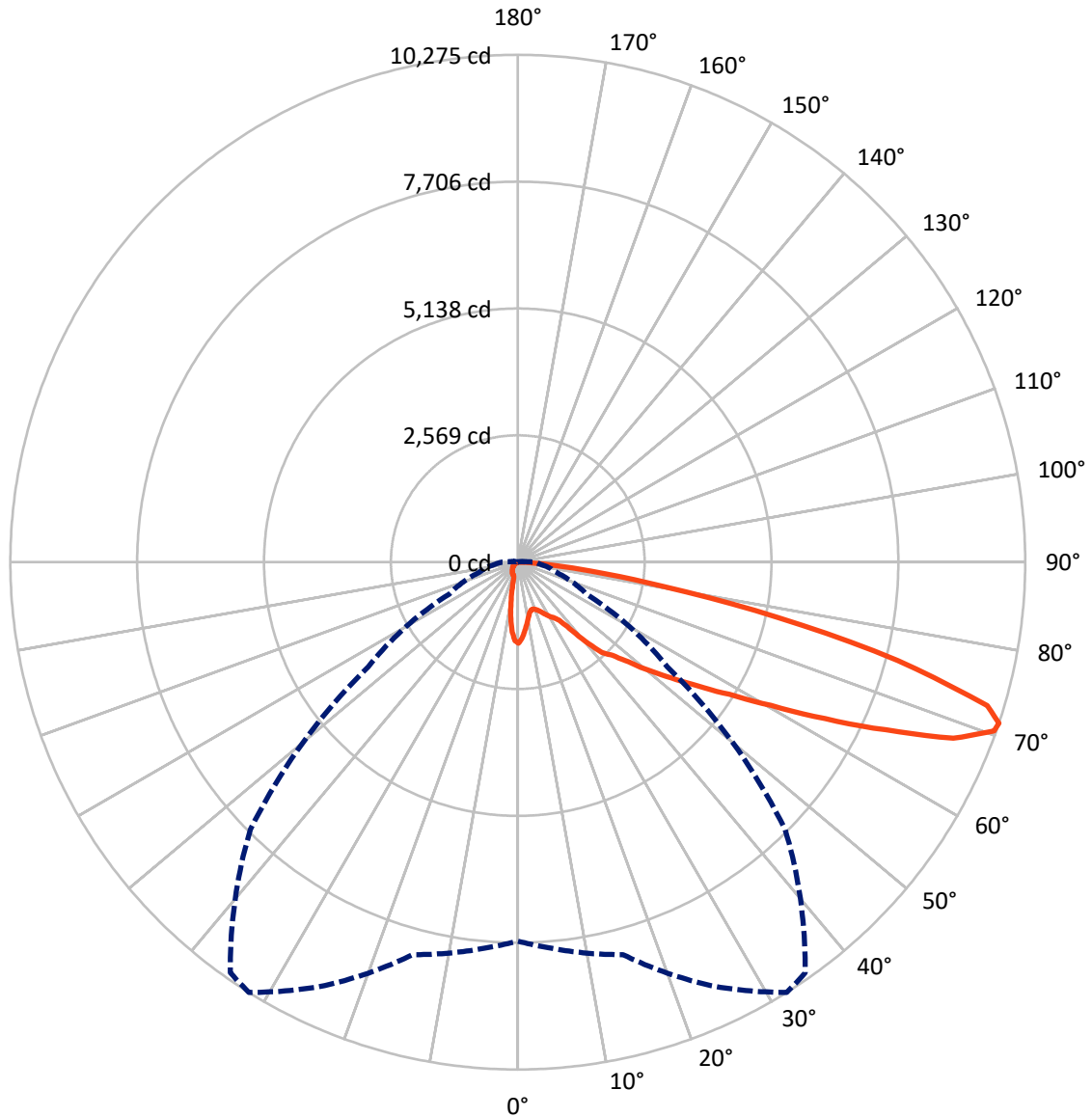
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.6 fc  
 Type IV - Short - N/A

REPORT NUMBER: P451868  
CATALOG NUMBER: GALN-SA2D-730-U-T4FT-HSS

### Luminous Intensity Polar Plot



— Vertical Plane Through 32-Deg Lateral    - - - Horizontal Cone Through 71-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	854.5	0.0	854.5
	% Fixture	8.4	0.0	8.4
<b>Street Side</b>	Lumens	9347.5	0.0	9347.5
	% Fixture	91.6	0.0	91.6
<b>Total</b>	Lumens	10202.0	0.0	10202.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	133.4	1.3
10°-20°	289.5	2.8
20°-30°	450.4	4.4
30°-40°	750.4	7.4
40°-50°	1395.9	13.7
50°-60°	2241.1	22.0
60°-70°	3014.4	29.5
70°-80°	1788.5	17.5
80°-90°	138.2	1.4
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°	10202.0	100.0
0°-180°	10202.0	100.0



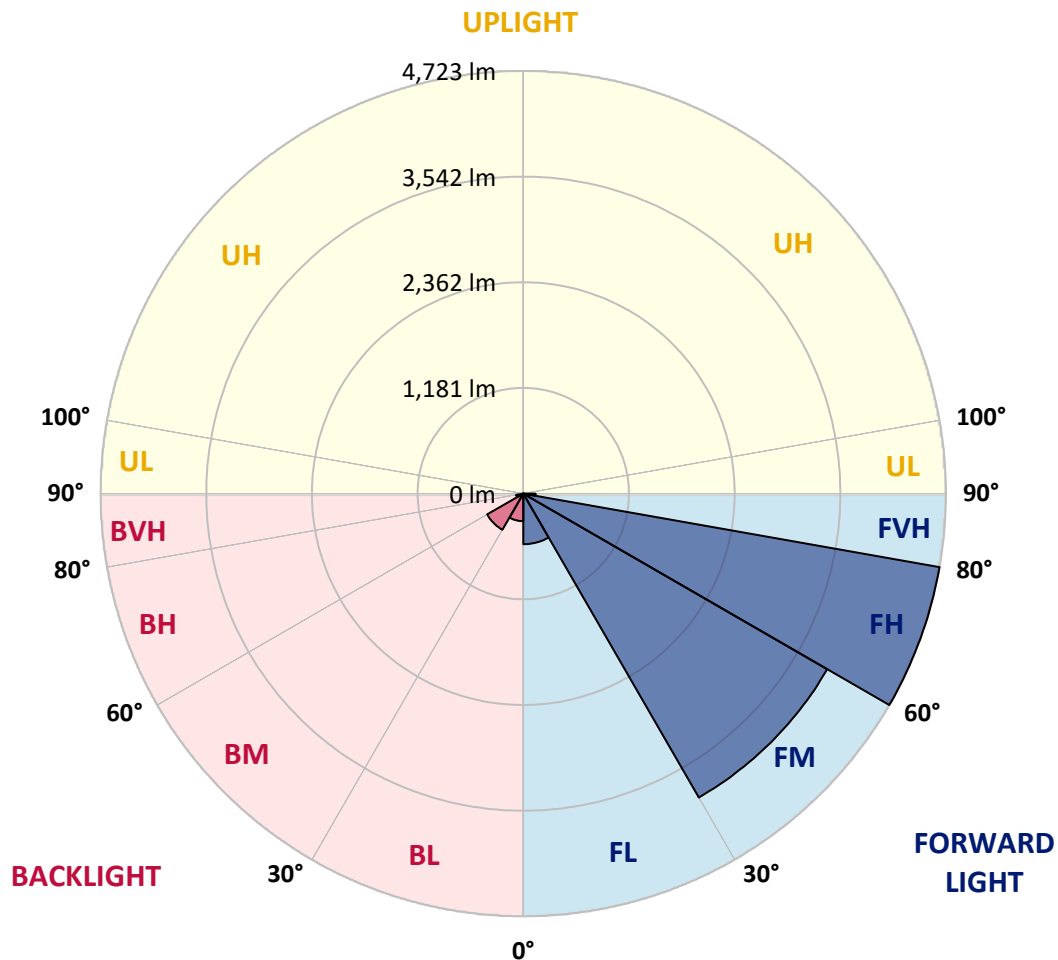
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 CATALOG NUMBER: GALN-SA2D-730-U-T4FT-HSS

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	565.5	5.5			
FM	(30°-60°)	3921.3	38.4			
FH	(60°-80°)	4723.0	46.3			G2/5000
FVH	(80°-90°)	137.7	1.3			G2/225
BL	(0°-30°)	307.9	3.0	B1/500		
BM	(30°-60°)	466.2	4.6	B1/1000		
BH	(60°-80°)	79.9	0.8	B0/110		G0/110
BVH	(80°-90°)	0.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G2**

Type IV Short





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CATALOG NUMBER: GALN-SA2D-730-U-T4FT-HSS

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	32°	35°	45°	55°	65°	75°	85°
0°	1640.6	1640.6	1640.6	1640.6	1640.6	1640.6	1640.6	1640.6	1640.6	1640.6	1640.6
2.5°	1521.6	1537.3	1534.9	1540.4	1553.7	1559.2	1574.1	1590.5	1613.2	1628.9	1639.1
5°	1362.6	1374.4	1375.9	1403.4	1416.7	1431.5	1475.4	1523.2	1576.4	1618.7	1646.9
7.5°	1192.7	1199.0	1211.5	1247.5	1281.2	1296.1	1362.6	1445.6	1529.4	1608.5	1659.4
10°	1052.5	1059.6	1082.3	1120.6	1152.0	1171.6	1264.0	1368.1	1485.6	1603.1	1677.4
12.5°	972.6	976.6	985.2	1019.6	1059.6	1080.7	1180.2	1299.2	1450.3	1605.4	1708.0
15°	967.2	965.6	955.4	969.5	1005.5	1027.5	1124.6	1252.2	1419.0	1613.2	1744.0
17.5°	996.1	992.2	967.9	967.9	997.7	1015.7	1101.1	1227.2	1403.4	1631.2	1794.9
20°	1040.8	1034.5	994.6	991.4	1020.4	1039.2	1115.2	1228.7	1406.5	1664.9	1863.0
22.5°	1097.2	1090.1	1029.8	1031.4	1062.7	1081.5	1155.9	1256.9	1426.1	1706.4	1935.9
25°	1170.8	1162.9	1091.7	1088.5	1121.4	1137.9	1216.2	1307.0	1453.5	1758.1	2031.4
27.5°	1268.7	1252.2	1166.9	1162.2	1197.4	1218.5	1289.0	1374.4	1502.0	1829.4	2159.9
30°	1349.3	1331.3	1249.9	1237.3	1274.9	1291.4	1364.2	1465.2	1597.6	1953.9	2337.6
32.5°	1455.0	1428.4	1332.9	1300.0	1339.9	1361.1	1473.1	1634.4	1739.3	2085.5	2549.1
35°	1693.1	1676.7	1560.0	1444.9	1442.5	1469.1	1633.6	1805.1	1885.0	2290.6	2837.3
37.5°	2033.8	2022.0	1898.3	1744.0	1699.4	1686.8	1828.6	1993.0	2117.6	2572.6	3172.4
40°	2429.2	2401.8	2288.3	2157.5	2099.6	2062.7	2058.8	2272.6	2421.4	2955.5	3521.7
42.5°	2712.7	2662.6	2524.8	2515.4	2502.9	2464.5	2353.3	2681.4	2813.8	3367.4	3895.2
45°	3010.3	2934.4	2729.2	2693.9	2689.2	2686.9	2798.1	3165.4	3241.3	3813.8	4279.0
47.5°	3241.3	3181.0	3012.7	2997.0	3016.6	3069.8	3386.2	3679.1	3663.4	4211.6	4600.8
50°	3549.1	3503.7	3316.5	3346.3	3447.3	3534.2	4049.5	4239.0	4010.4	4524.9	4835.0
52.5°	3912.5	3828.7	3654.8	3735.5	3890.6	4035.4	4753.6	4729.3	4253.9	4760.6	5009.6
55°	4227.3	4167.8	4108.3	4192.1	4423.9	4604.8	5389.4	5096.6	4430.9	4950.1	5086.4
57.5°	4759.8	4745.7	4684.6	4770.0	5051.1	5239.1	5958.8	5381.6	4544.5	5048.8	4996.3
60°	5547.6	5524.9	5411.4	5520.2	5886.7	6182.0	6483.5	5637.7	4570.3	5010.4	4737.1
62.5°	6495.2	6417.7	6320.6	6481.1	6983.9	7113.9	6977.6	5789.6	4474.0	4705.0	4112.2
65°	7380.1	7300.3	7302.6	7640.9	8188.3	8276.8	7554.0	5766.9	4192.1	3939.9	3033.0
67.5°	8057.5	8044.2	8139.8	8799.9	9515.7	9454.6	8069.3	5427.0	3356.5	2553.8	1611.7
70°	8092.0	8117.8	8391.9	9506.3	10233.1	10136.0	8025.4	4411.3	2092.5	1174.7	635.1
71°	7675.4	7849.2	8228.3	9484.4	10275.3	10149.3	7655.8	3694.8	1534.9	819.1	458.1
72.5°	6540.6	6632.3	7451.4	8926.0	9941.0	9671.6	6718.4	2589.8	982.8	501.2	263.1
75°	3602.4	3827.9	4990.1	7002.7	7951.0	7714.5	4378.4	1230.3	490.2	274.1	108.9
77.5°	1715.0	1671.2	2434.7	4164.6	5391.0	5378.5	2206.1	546.6	285.8	185.6	54.8
80°	490.2	551.3	931.9	1979.7	2993.1	3026.0	847.3	263.9	198.1	144.9	28.2
82.5°	148.0	151.1	342.2	875.5	1488.7	1403.4	317.9	134.7	142.5	115.1	16.4
85°	25.8	32.1	101.0	308.6	567.8	430.7	79.9	64.2	94.0	76.0	9.4
87.5°	1.6	2.3	33.7	35.2	50.1	29.0	14.1	9.4	20.4	20.4	5.5
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: P451868

CATALOG NUMBER: GALN-SA2D-730-U-T4FT-HSS

**CANDELA DISTRIBUTION (continued):**

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	1640.6	1640.6	1640.6	1640.6	1640.6	1640.6	1640.6	1640.6	1640.6	1640.6	1640.6
2.5°	1646.1	1650.8	1647.7	1640.6	1628.9	1614.8	1596.0	1580.3	1567.0	1560.0	1568.6
5°	1656.3	1662.6	1646.9	1611.7	1558.4	1500.5	1434.7	1383.8	1343.8	1331.3	1326.6
7.5°	1672.0	1675.9	1633.6	1555.3	1442.5	1305.5	1185.6	1084.6	1006.3	982.8	948.4
10°	1692.3	1690.0	1610.1	1464.4	1266.3	1060.3	874.7	736.9	632.8	595.2	592.0
12.5°	1723.7	1711.1	1580.3	1340.7	1056.4	787.0	557.6	436.2	370.4	348.5	343.8
15°	1762.8	1733.0	1533.4	1195.8	809.0	508.2	343.8	307.0	298.4	296.8	295.2
17.5°	1809.0	1762.0	1471.5	1018.1	568.5	329.7	287.4	286.6	287.4	285.8	285.1
20°	1871.7	1792.6	1397.9	807.4	375.9	278.0	274.1	274.1	274.9	274.1	274.1
22.5°	1938.2	1828.6	1307.0	616.3	283.5	263.9	263.1	264.7	266.3	265.5	265.5
25°	2020.5	1875.6	1187.2	422.1	253.7	252.2	252.9	256.1	259.2	260.0	259.2
27.5°	2139.5	1933.5	1058.8	290.5	232.6	234.2	242.0	249.8	254.5	255.3	255.3
30°	2273.4	1997.7	891.2	235.7	215.4	215.4	224.8	239.6	249.8	251.4	252.2
32.5°	2445.7	2072.1	705.6	212.2	198.9	197.3	206.0	224.0	242.8	248.2	248.2
35°	2658.7	2159.9	524.7	197.3	187.2	183.3	187.9	202.8	227.1	242.8	244.3
37.5°	2908.5	2242.9	383.7	184.0	176.2	170.7	173.9	185.6	205.2	228.7	234.9
40°	3139.5	2316.5	286.6	173.1	165.2	161.3	163.7	169.2	185.6	207.5	211.4
42.5°	3391.7	2373.6	227.9	161.3	154.3	152.7	152.7	155.1	166.0	178.6	179.3
45°	3643.1	2394.0	191.1	147.2	142.5	144.1	143.3	141.7	146.4	144.9	144.9
47.5°	3822.4	2369.7	158.2	133.9	133.9	136.3	132.3	126.9	124.5	115.1	115.9
50°	3945.4	2281.2	130.0	118.3	124.5	127.6	119.8	111.2	102.6	92.4	90.1
52.5°	3996.3	2123.8	106.5	97.9	110.4	114.3	104.9	94.8	81.4	72.8	70.5
55°	3963.4	1929.6	88.5	79.9	93.2	97.9	88.5	76.7	61.9	52.5	50.9
57.5°	3818.5	1697.8	75.2	63.4	74.4	77.5	71.3	58.7	43.9	34.5	34.5
60°	3567.9	1458.2	61.1	50.1	55.6	60.3	54.0	42.3	29.8	21.1	19.6
62.5°	3059.7	1184.1	49.3	39.2	39.2	43.1	37.6	30.5	18.8	11.0	10.2
65°	2209.2	812.1	39.2	29.0	28.2	28.2	23.5	20.4	11.0	4.7	3.1
67.5°	1200.5	458.1	31.3	21.9	19.6	18.8	14.9	11.7	4.7	0.8	0.0
70°	472.2	176.2	24.3	14.9	12.5	11.7	7.8	5.5	3.1	0.0	0.0
71°	320.3	121.4	21.1	12.5	10.2	8.6	6.3	4.7	2.3	0.0	0.0
72.5°	183.3	75.2	16.4	9.4	7.8	6.3	4.7	3.1	2.3	0.0	0.0
75°	79.9	38.4	10.2	7.0	5.5	3.9	3.1	2.3	0.8	0.0	0.0
77.5°	40.7	21.1	7.0	5.5	3.1	2.3	1.6	0.8	0.0	0.0	0.0
80°	22.7	11.0	4.7	3.1	2.3	1.6	0.8	0.8	0.0	0.0	0.0
82.5°	12.5	6.3	2.3	1.6	0.8	0.0	0.0	0.0	0.0	0.0	0.0
85°	7.8	3.9	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.9	1.6	0.0	0.0	0.0	0.0	0.8	0.8	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)