

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: P528709

Luminaire Tested: **GALN-SA3D-740-U-T2R-GRSBK**

Issue Date: 5/27/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P528709  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-9)  
Test Lab: INNOVATION CENTER  
Issue Date: 5/27/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SA3D-740-U-T2R-GRSBK  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(3) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH BLACK GLARE REDUCTION SHIELD  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15273 lumens  
Efficiency: N/A  
Efficacy: 83.0 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B2 - U0 - G1

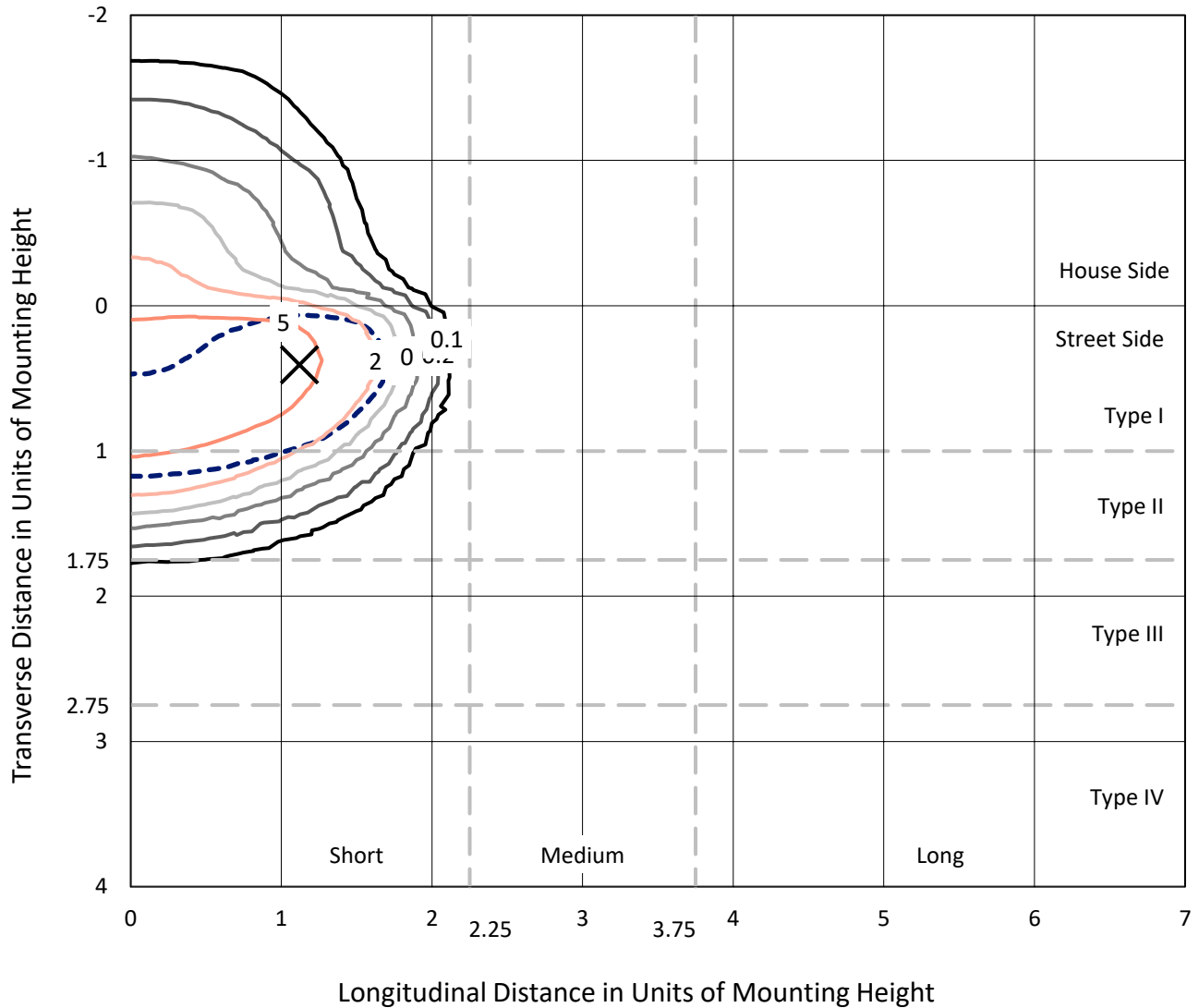
Input Watts (W): 184  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

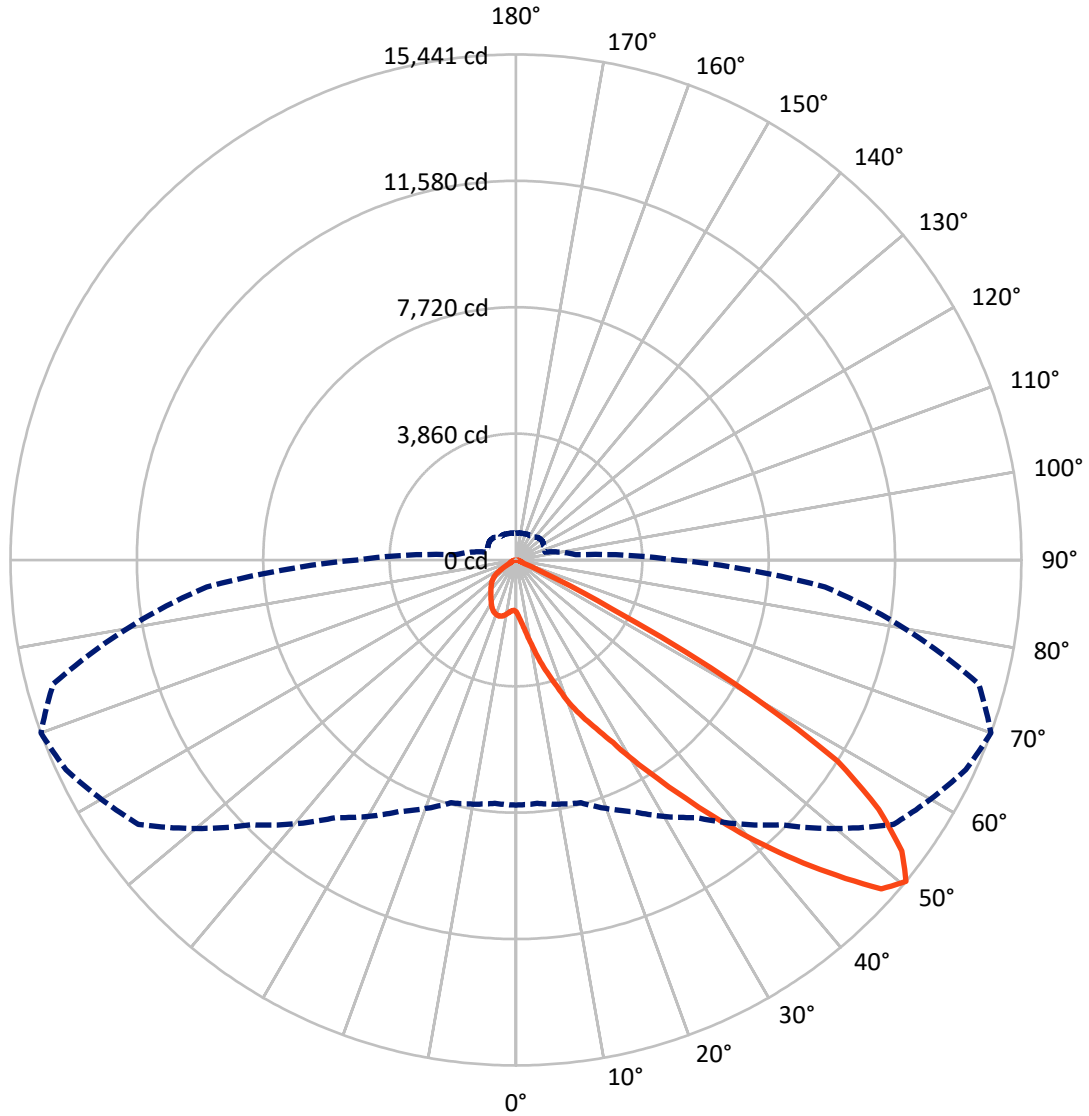
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.1 fc  
 Type I - Short - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 70-Deg Lateral      - - - Horizontal Cone Through 50-Deg Vertical

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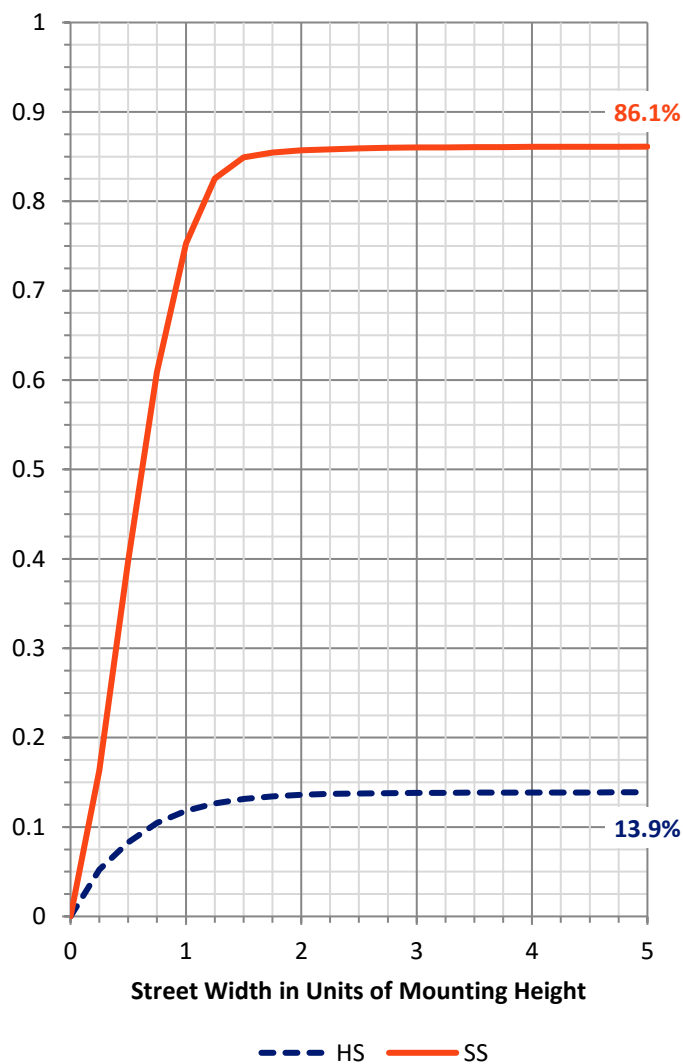
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2133.0	0.0	2133.0
	% Fixture	14.0	0.0	14.0
<b>Street Side</b>	Lumens	13140.0	0.0	13140.0
	% Fixture	86.0	0.0	86.0
<b>Total</b>	Lumens	15273.0	0.0	15273.0
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	205.7	1.3
10°-20°	889.9	5.8
20°-30°	1866.8	12.2
30°-40°	3217.7	21.1
40°-50°	4702.6	30.8
50°-60°	3662.5	24.0
60°-70°	620.5	4.1
70°-80°	85.3	0.6
80°-90°	22.1	0.1
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°	15273.0	100.0
0°-180°	15273.0	100.0

**Coefficient of Utilization**



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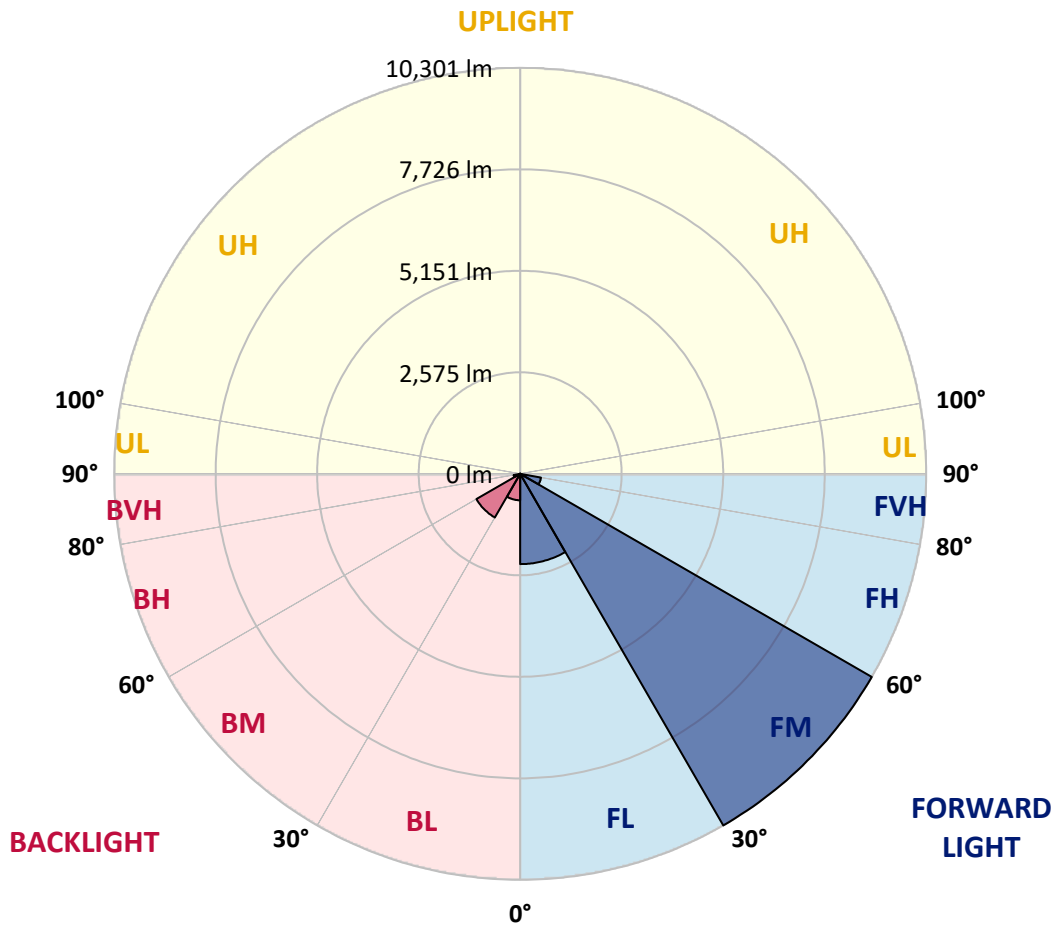
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	2291.1	15.0			
FM (30°-60°)	10301.4	67.4			
FH (60°-80°)	537.3	3.5			G0/660
FVH (80°-90°)	10.2	0.1			G1/100
BL (0°-30°)	671.2	4.4	B2/1000		
BM (30°-60°)	1281.4	8.4	B2/2500		
BH (60°-80°)	168.5	1.1	B1/500		G1/500
BVH (80°-90°)	11.9	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B2-U0-G1**

Type I Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	85°
0°	1582.0	1582.0	1582.0	1582.0	1582.0	1582.0	1582.0	1582.0	1582.0	1582.0	1582.0
2.5°	2071.6	2056.6	2023.9	1963.7	1938.6	1878.3	1843.1	1775.3	1732.6	1684.9	1632.2
5°	2917.9	2840.0	2792.3	2724.5	2526.1	2403.1	2199.7	2026.4	1946.1	1858.2	1737.7
7.5°	3791.7	3741.5	3676.2	3530.6	3395.0	3138.9	2789.8	2408.1	2244.9	2094.2	1855.7
10°	4514.9	4374.3	4366.8	4258.8	4110.6	3804.3	3384.9	2910.3	2619.1	2398.1	2023.9
12.5°	5019.7	4891.6	4949.3	4936.8	4798.7	4517.4	4032.8	3405.0	3101.2	2757.2	2197.2
15°	5479.2	5426.4	5408.9	5393.8	5338.6	5130.1	4695.7	4007.7	3568.2	3153.9	2393.1
17.5°	5928.7	5793.1	5858.4	5870.9	5865.9	5677.6	5270.8	4580.2	4062.9	3573.3	2599.0
20°	6327.9	6340.5	6252.6	6235.0	6220.0	6212.4	5815.7	5147.7	4670.6	4012.7	2867.7
22.5°	6840.2	6752.3	6830.1	6779.9	6682.0	6621.7	6317.9	5649.9	5197.9	4542.5	3141.4
25°	7445.4	7515.7	7332.4	7312.3	7204.3	6995.9	6722.2	6212.4	5705.2	5034.7	3437.7
27.5°	8191.2	8068.1	8020.4	7909.9	7714.0	7626.2	7304.7	6792.5	6317.9	5552.0	3723.9
30°	8831.5	8798.8	8560.3	8429.7	8259.0	8256.4	7807.0	7578.4	7116.4	6363.1	4118.2
32.5°	9353.8	9210.7	9122.8	9032.4	8894.3	8931.9	8552.7	8432.2	7967.7	7116.4	4582.7
35°	9702.8	9599.9	9547.1	9409.0	9368.8	9537.1	9378.9	9328.7	8947.0	8176.1	5127.6
37.5°	9813.3	9846.0	9835.9	9662.6	9748.0	10202.5	10405.9	10275.4	10074.5	9293.5	5717.7
40°	9911.2	9933.8	9883.6	10087.0	10330.6	10847.9	11583.6	11367.7	11292.3	10426.0	6538.9
42.5°	9966.5	9948.9	9948.9	10300.5	10669.6	11709.2	12721.1	12578.0	12520.3	11631.3	7488.0
45°	9727.9	9557.2	9740.5	10217.6	10960.9	12133.6	13630.2	13828.5	13745.7	13065.2	8597.9
47.5°	8836.5	8942.0	9044.9	9682.7	10606.8	12003.0	14187.6	14863.1	15016.3	14270.5	9326.2
50°	7488.0	7465.4	7678.9	8482.4	9604.9	11440.5	14079.6	15161.9	15440.6	14632.1	9479.3
52.5°	5446.5	5612.3	5843.3	6641.8	7972.7	9984.1	12686.0	14391.0	14762.7	14187.6	9378.9
55°	3171.5	2988.2	3508.0	4183.5	5439.0	7530.7	10724.8	12756.3	13444.3	13379.0	8871.7
57.5°	1270.6	1230.4	1408.7	1898.4	2837.5	4668.1	7799.4	10481.3	11583.6	12254.1	7796.9
60°	557.5	544.9	640.3	773.4	1160.1	2152.0	4266.3	6518.8	7668.8	8562.8	5366.2
62.5°	401.8	396.8	444.5	492.2	612.7	936.6	1792.9	2626.6	3274.5	3955.0	2403.1
65°	323.9	336.5	369.1	394.2	452.0	519.8	632.8	730.7	896.5	929.1	529.8
67.5°	263.7	273.7	303.8	331.5	341.5	281.2	291.3	256.1	256.1	228.5	183.3
70°	193.4	195.9	231.0	263.7	210.9	113.0	198.4	198.4	178.3	170.8	155.7
72.5°	143.1	145.6	173.3	163.2	82.9	70.3	145.6	160.7	145.6	138.1	125.6
75°	105.5	108.0	90.4	37.7	35.2	45.2	85.4	110.5	105.5	103.0	95.4
77.5°	20.1	15.1	12.6	17.6	25.1	37.7	55.2	67.8	70.3	75.3	70.3
80°	2.5	2.5	7.5	15.1	27.6	40.2	57.8	65.3	67.8	70.3	65.3
82.5°	0.0	2.5	7.5	15.1	27.6	37.7	50.2	57.8	62.8	65.3	62.8
85°	0.0	2.5	5.0	12.6	22.6	27.6	25.1	17.6	15.1	17.6	12.6
87.5°	0.0	0.0	2.5	2.5	5.0	5.0	5.0	5.0	5.0	5.0	5.0
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°	1582.0	1582.0	1582.0	1582.0	1582.0	1582.0	1582.0	1582.0	1582.0	1582.0	1582.0
2.5°	1602.1	1592.0	1556.9	1519.2	1486.6	1501.6	1486.6	1474.0	1479.0	1474.0	1469.0
5°	1690.0	1644.8	1569.4	1536.8	1509.2	1506.6	1499.1	1496.6	1499.1	1499.1	1476.5
7.5°	1772.8	1700.0	1619.6	1584.5	1551.8	1554.4	1536.8	1536.8	1534.3	1521.7	1516.7
10°	1898.4	1800.4	1697.5	1634.7	1594.5	1587.0	1569.4	1551.8	1551.8	1551.8	1526.7
12.5°	2036.5	1913.4	1772.8	1700.0	1652.3	1614.6	1587.0	1582.0	1554.4	1549.3	1536.8
15°	2157.0	2001.3	1823.0	1722.6	1662.3	1612.1	1569.4	1541.8	1529.2	1521.7	1511.7
17.5°	2275.0	2076.7	1850.7	1722.6	1657.3	1599.6	1554.4	1529.2	1499.1	1504.1	1484.0
20°	2433.2	2157.0	1858.2	1690.0	1609.6	1554.4	1494.1	1481.5	1464.0	1448.9	1453.9
22.5°	2586.4	2214.8	1835.6	1649.8	1534.3	1469.0	1438.9	1423.8	1416.3	1403.7	1386.1
25°	2724.5	2277.6	1800.4	1577.0	1453.9	1406.2	1378.6	1376.1	1358.5	1358.5	1325.9
27.5°	2865.1	2300.2	1740.2	1491.6	1383.6	1356.0	1343.4	1338.4	1330.9	1313.3	1290.7
30°	3025.9	2307.7	1652.3	1403.7	1320.8	1290.7	1308.3	1320.8	1288.2	1255.5	1265.6
32.5°	3158.9	2290.1	1546.8	1320.8	1275.6	1260.6	1295.7	1308.3	1270.6	1235.5	1217.9
35°	3319.7	2247.4	1443.9	1255.5	1230.4	1260.6	1290.7	1290.7	1215.4	1172.7	1162.6
37.5°	3563.2	2199.7	1348.5	1200.3	1182.7	1245.5	1285.7	1258.1	1140.0	1087.3	1074.7
40°	3824.4	2169.6	1255.5	1145.1	1157.6	1220.4	1243.0	1157.6	1037.1	1004.4	994.4
42.5°	4203.6	2109.3	1172.7	1097.3	1135.0	1185.2	1185.2	1032.1	986.9	969.3	966.8
45°	4675.6	2066.6	1099.9	1057.2	1102.4	1114.9	1074.7	966.8	934.1	929.1	931.6
47.5°	4906.7	1983.8	1024.5	1009.5	1042.1	1044.6	939.1	914.0	886.4	878.9	873.9
50°	4871.5	1835.6	926.6	946.7	991.9	966.8	856.3	861.3	836.2	833.7	821.1
52.5°	4625.4	1602.1	828.7	876.4	926.6	853.8	788.5	783.5	783.5	750.8	738.3
55°	4100.6	1290.7	710.6	770.9	831.2	718.2	700.6	695.6	683.0	652.9	645.3
57.5°	3246.8	946.7	534.9	600.1	705.6	610.2	607.7	585.1	552.4	529.8	529.8
60°	1931.0	544.9	336.5	366.6	467.1	494.7	549.9	539.9	484.6	449.5	439.4
62.5°	881.4	281.2	213.4	218.5	251.1	321.4	431.9	499.7	421.9	361.6	356.6
65°	296.3	208.4	175.8	168.2	173.3	193.4	258.6	354.1	336.5	278.7	268.7
67.5°	180.8	185.8	165.7	153.2	153.2	150.7	148.2	160.7	198.4	193.4	195.9
70°	155.7	170.8	153.2	138.1	133.1	125.6	105.5	87.9	75.3	87.9	92.9
72.5°	125.6	135.6	130.6	118.0	105.5	95.4	75.3	57.8	42.7	37.7	37.7
75°	92.9	100.4	105.5	90.4	80.4	67.8	55.2	37.7	22.6	15.1	15.1
77.5°	67.8	75.3	77.8	70.3	60.3	47.7	35.2	25.1	12.6	5.0	5.0
80°	57.8	67.8	75.3	70.3	62.8	45.2	32.6	17.6	10.0	2.5	2.5
82.5°	55.2	67.8	75.3	67.8	60.3	42.7	32.6	20.1	7.5	2.5	2.5
85°	12.6	17.6	22.6	27.6	32.6	32.6	25.1	15.1	7.5	2.5	2.5
87.5°	5.0	5.0	5.0	5.0	5.0	5.0	5.0	5.0	2.5	2.5	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)