

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: P452334

Luminaire Tested: **GALN-SA3B-730-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452334
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-27)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA3B-730-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11191 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

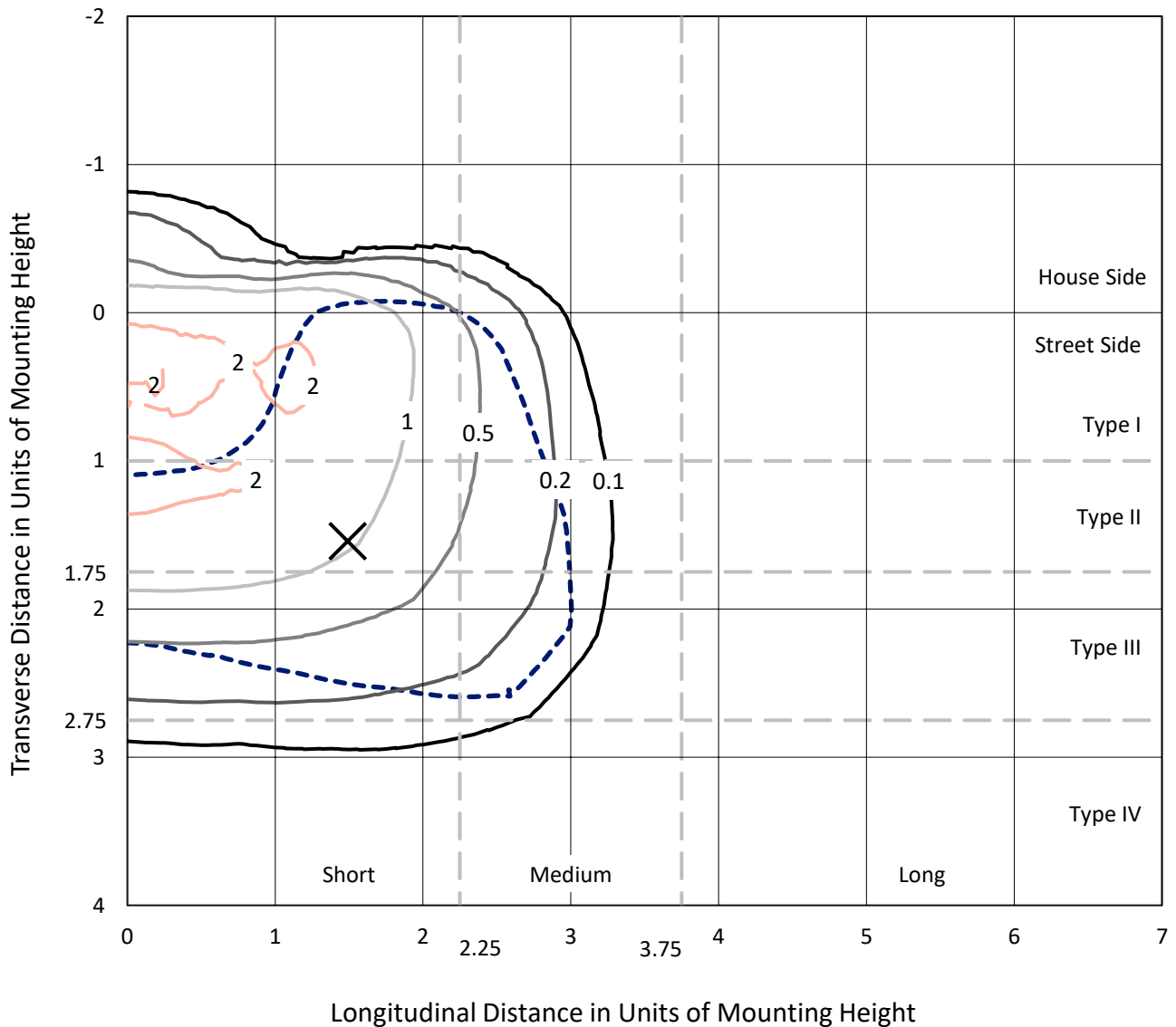
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

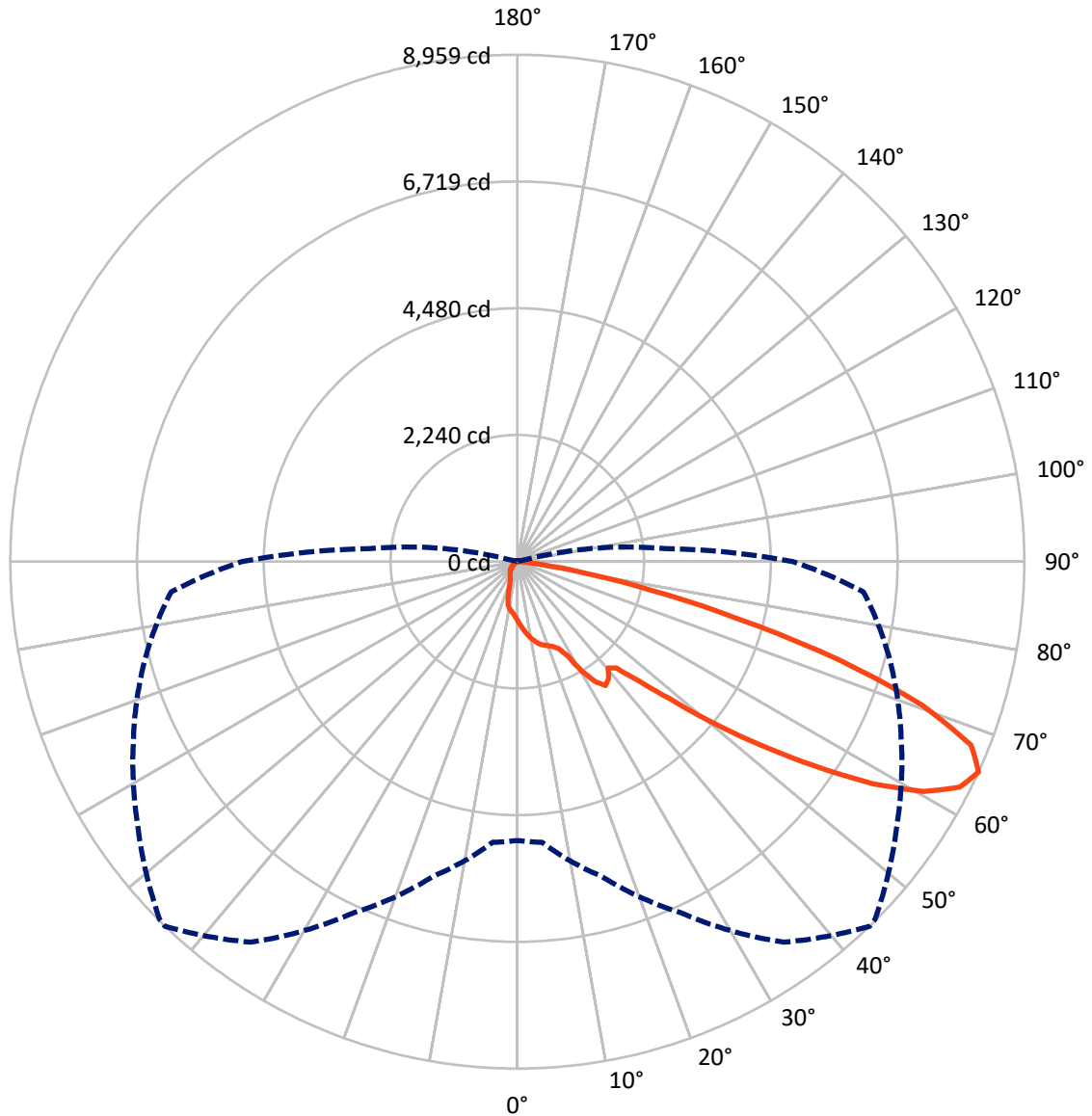
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical



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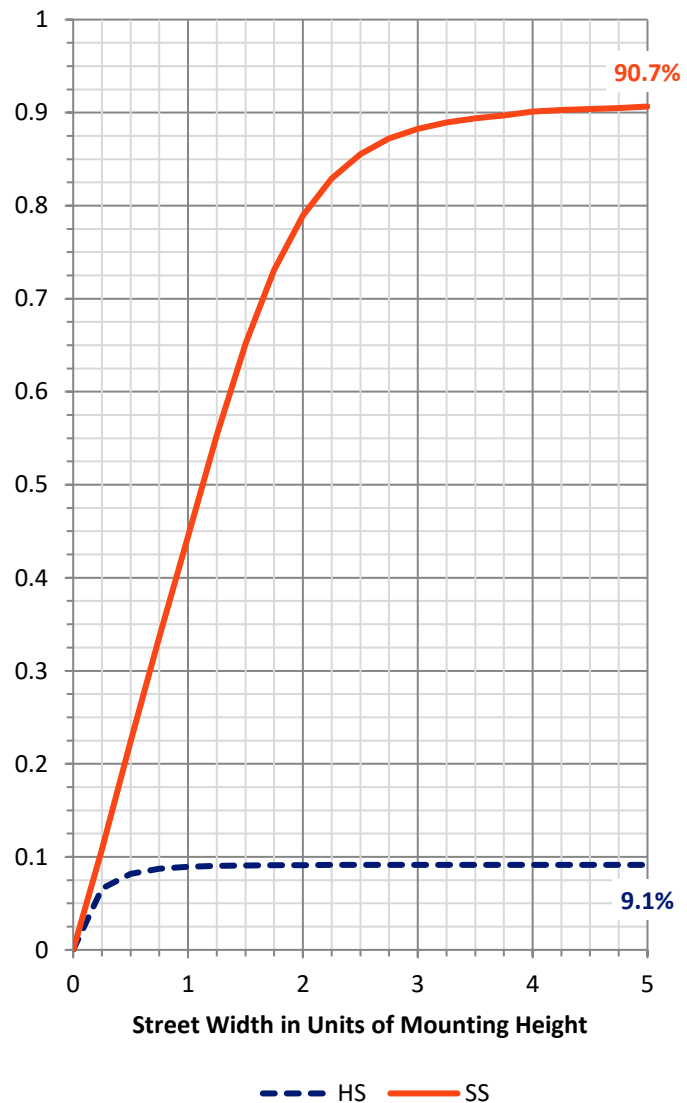
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1031.1	0.0	1031.1
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	10159.9	0.0	10159.9
	% Fixture	90.8	0.0	90.8
Total	Lumens	11191.0	0.0	11191.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	103.6	0.9
10°-20°	311.8	2.8
20°-30°	528.7	4.7
30°-40°	879.0	7.9
40°-50°	1534.8	13.7
50°-60°	2998.4	26.8
60°-70°	3478.8	31.1
70°-80°	1266.8	11.3
80°-90°	89.3	0.8
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°	11191.0	100.0
0°-180°	11191.0	100.0



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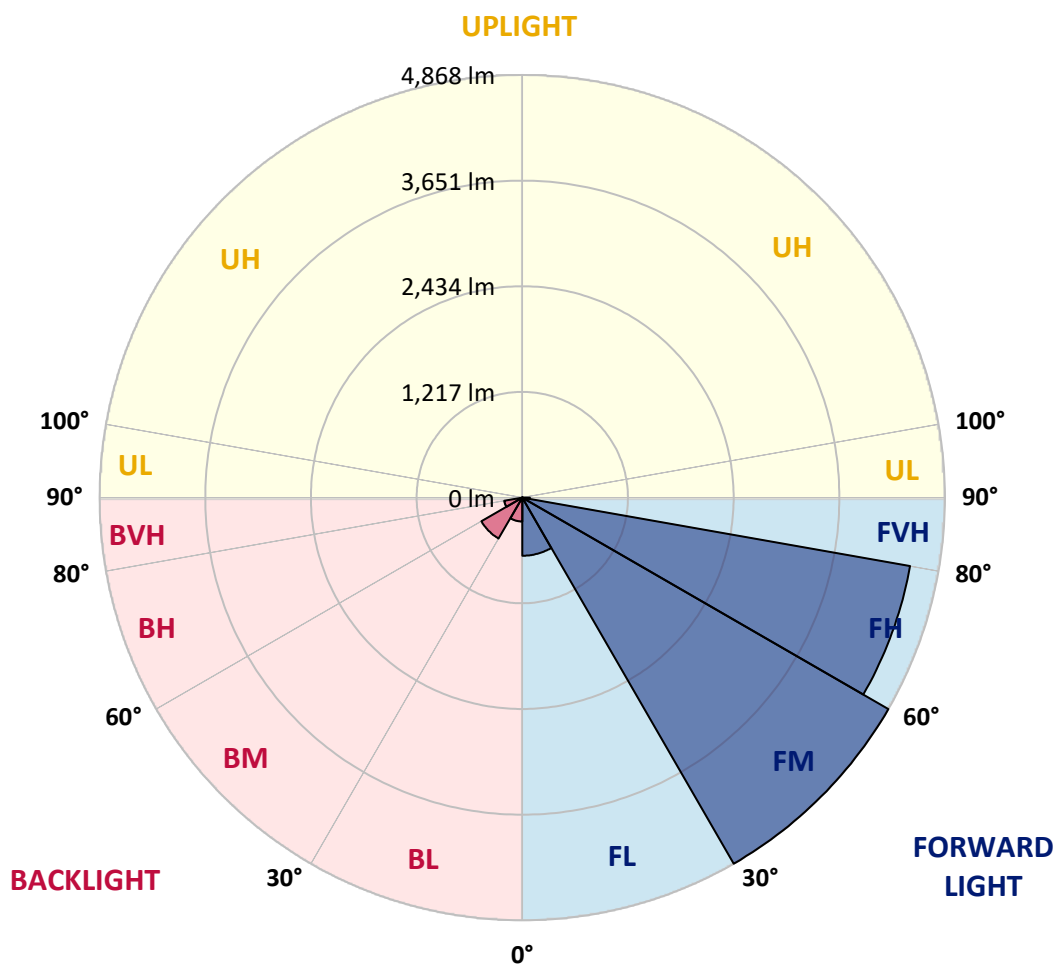
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	669.3	6.0			
FM	(30°-60°)	4868.1	43.5			
FH	(60°-80°)	4534.4	40.5			G2/5000
FVH	(80°-90°)	88.0	0.8			G1/100
BL	(0°-30°)	274.7	2.5	B1/500		
BM	(30°-60°)	544.0	4.9	B1/1000		
BH	(60°-80°)	211.1	1.9	B1/500		G1/500
BVH	(80°-90°)	1.2	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 III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5
2.5°	1172.4	1167.3	1164.7	1151.0	1140.7	1127.9	1127.9	1111.7	1092.9	1072.3	1053.5
5°	1303.2	1294.7	1283.6	1271.6	1247.6	1213.4	1213.4	1179.2	1139.9	1104.8	1066.3
7.5°	1428.9	1421.2	1402.4	1379.3	1340.0	1304.1	1301.5	1251.9	1204.9	1151.9	1097.1
10°	1539.2	1533.2	1517.0	1472.5	1431.5	1384.5	1383.6	1328.0	1273.3	1208.3	1140.7
12.5°	1616.2	1617.1	1595.7	1552.9	1499.9	1455.4	1452.0	1397.3	1340.0	1269.9	1186.9
15°	1670.9	1670.9	1648.7	1600.8	1552.9	1513.6	1510.2	1462.3	1403.3	1327.2	1237.4
17.5°	1686.3	1691.4	1667.5	1624.7	1586.3	1552.1	1551.2	1511.0	1464.0	1390.4	1288.7
20°	1680.3	1685.5	1666.6	1633.3	1606.8	1587.1	1584.6	1568.3	1524.7	1455.4	1343.4
22.5°	1667.5	1672.6	1659.0	1639.3	1626.5	1632.4	1628.2	1641.8	1618.8	1535.0	1408.4
25°	1670.1	1675.2	1664.9	1653.8	1664.9	1701.7	1712.8	1771.8	1751.3	1635.9	1478.5
27.5°	1750.5	1760.7	1746.2	1751.3	1790.6	1876.2	1897.5	1999.3	1908.7	1764.1	1588.0
30°	1929.2	1922.3	1895.0	1919.8	2056.6	2237.9	2231.9	2215.6	2073.7	1912.1	1718.0
32.5°	2091.6	2085.7	2084.0	2190.8	2438.8	2526.9	2522.6	2365.3	2221.6	2081.4	1846.2
35°	2157.5	2134.4	2129.3	2388.4	2803.1	2686.8	2660.3	2426.9	2401.2	2266.1	1977.1
37.5°	2355.9	2339.6	2260.1	2420.9	2657.7	2619.3	2598.7	2532.9	2592.8	2429.4	2125.0
40°	2764.6	2719.3	2647.5	2490.1	2451.7	2467.9	2488.4	2668.9	2819.4	2652.6	2322.5
42.5°	3272.6	3262.3	3128.9	2835.6	2547.4	2569.7	2596.2	2952.8	3145.2	2988.7	2644.9
45°	3882.3	3896.8	3704.4	3358.1	2980.1	2998.9	3037.4	3371.8	3586.4	3511.2	3152.0
47.5°	4436.4	4425.3	4360.3	4000.3	3651.4	3609.5	3671.9	3909.7	4197.0	4208.9	3781.4
50°	4994.0	5053.0	4956.3	4815.2	4556.1	4468.1	4445.0	4561.3	4999.1	4941.8	4537.3
52.5°	5795.2	5826.0	5644.7	5608.8	5667.8	5382.2	5359.1	5387.3	5779.0	5582.3	5103.4
55°	6298.9	6280.9	6213.4	6493.9	6727.3	6370.7	6341.6	6227.9	6426.3	6034.7	5648.1
57.5°	6457.9	6483.6	6640.9	7148.0	7700.4	7397.7	7344.7	7021.5	6893.2	6456.2	6149.2
60°	6387.0	6434.0	6773.5	7527.7	8293.9	8248.6	8203.3	7660.3	7228.4	6808.5	6500.7
62.5°	5881.6	5947.4	6490.4	7460.2	8494.9	8777.9	8721.5	8058.7	7451.6	6979.6	6562.3
65°	4929.0	4977.7	5757.6	6847.0	8209.2	8959.2	8938.7	8183.6	7486.7	6823.1	6140.7
67.5°	3513.7	3679.6	4402.2	5770.4	7364.4	8649.6	8684.7	8033.9	7157.4	6146.7	5085.5
70°	2208.8	2321.7	2839.9	4131.1	5903.8	7588.4	7703.9	7349.0	6211.7	4791.3	3404.3
72.5°	1053.5	1137.3	1506.7	2615.0	4167.0	5970.5	6062.0	6032.9	4803.3	3018.6	1756.4
75°	469.5	501.1	719.2	1334.9	2690.2	4013.1	4250.0	4289.3	3001.5	1476.8	683.2
77.5°	239.4	240.3	336.9	646.5	1343.4	2394.4	2441.4	2579.1	1627.3	650.8	237.7
80°	127.4	136.0	178.7	305.3	696.9	1179.2	1173.2	1289.5	721.7	319.0	79.5
82.5°	57.3	63.3	100.9	159.9	340.3	447.2	482.3	527.6	309.6	203.5	35.1
85°	17.1	20.5	49.6	80.4	123.1	129.1	144.5	186.4	175.3	144.5	18.0
87.5°	2.6	2.6	20.5	22.2	18.0	23.1	23.9	26.5	56.4	53.0	9.4
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°	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5	1041.5
2.5°	1043.3	1037.3	1015.9	997.9	982.5	973.1	962.0	955.2	951.8	949.2	950.0
5°	1047.5	1033.0	996.2	967.2	944.9	921.0	904.7	895.3	891.0	884.2	884.2
7.5°	1071.5	1048.4	997.1	952.6	914.1	881.6	850.9	839.7	832.0	830.3	828.6
10°	1105.7	1076.6	1006.5	944.9	890.2	845.7	802.1	763.6	733.7	715.7	713.2
12.5°	1148.4	1106.5	1021.0	939.8	869.7	791.0	675.6	597.7	545.6	529.3	531.9
15°	1187.8	1142.5	1035.6	935.5	832.0	655.9	525.0	436.1	409.6	407.0	407.9
17.5°	1234.8	1180.9	1052.7	929.5	728.6	501.1	389.9	366.0	371.1	379.7	378.8
20°	1283.6	1222.0	1073.2	893.6	581.5	377.1	344.6	347.2	354.9	362.6	364.3
22.5°	1335.7	1269.0	1097.1	807.2	443.8	328.4	326.7	330.1	337.8	346.3	348.0
25°	1407.5	1328.0	1115.1	694.4	336.1	303.6	307.0	313.0	319.8	329.2	330.9
27.5°	1499.9	1407.5	1124.5	547.3	290.7	281.3	282.2	290.7	299.3	307.8	307.8
30°	1619.6	1502.5	1105.7	413.9	268.5	260.0	256.5	261.7	272.8	281.3	282.2
32.5°	1726.5	1592.3	1056.1	316.4	252.3	240.3	231.7	232.6	236.9	242.0	242.9
35°	1833.4	1679.5	971.4	265.9	235.2	221.5	208.7	201.8	198.4	195.8	198.4
37.5°	1970.2	1788.1	858.6	242.0	220.6	203.5	185.6	171.0	159.1	151.4	153.1
40°	2146.4	1938.6	725.2	226.6	206.9	186.4	162.5	143.7	123.1	116.3	112.9
42.5°	2437.1	2166.9	584.9	213.8	193.3	168.5	138.5	112.9	94.1	87.2	88.9
45°	2896.3	2455.1	450.7	200.1	179.6	148.8	116.3	88.9	73.5	70.1	71.8
47.5°	3505.2	2827.9	347.2	184.7	162.5	127.4	91.5	70.1	60.7	59.9	59.0
50°	4078.1	3175.1	289.9	167.6	142.0	106.0	75.3	59.0	53.0	52.2	52.2
52.5°	4596.3	3423.9	236.0	147.9	119.7	87.2	63.3	52.2	47.0	44.5	44.5
55°	5057.2	3586.4	191.5	124.0	94.1	69.3	54.7	47.0	41.0	37.6	36.8
57.5°	5405.3	3606.1	143.7	99.2	70.1	53.9	47.0	41.0	34.2	29.9	28.2
60°	5554.1	3435.9	106.0	75.3	52.2	42.8	37.6	33.4	25.7	21.4	20.5
62.5°	5404.4	3105.0	78.7	57.3	40.2	31.6	26.5	24.8	18.0	12.8	12.0
65°	4868.3	2627.0	62.4	43.6	29.9	23.1	17.1	16.2	11.1	6.0	5.1
67.5°	3900.2	2057.4	49.6	32.5	21.4	15.4	11.1	10.3	6.0	1.7	1.7
70°	2536.3	1315.2	40.2	23.9	13.7	10.3	6.8	5.1	3.4	0.9	0.0
72.5°	1254.5	614.8	32.5	18.8	9.4	5.1	2.6	1.7	2.6	0.0	0.0
75°	486.6	218.9	23.9	12.8	5.1	2.6	1.7	0.0	0.9	0.0	0.0
77.5°	161.6	72.7	14.5	6.8	3.4	1.7	0.0	0.0	0.0	0.0	0.0
80°	59.9	28.2	7.7	4.3	1.7	0.9	0.0	0.0	0.0	0.0	0.0
82.5°	23.9	11.1	5.1	3.4	1.7	0.0	0.0	0.0	0.0	0.0	0.0
85°	12.0	6.8	3.4	2.6	1.7	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	8.6	5.1	3.4	2.6	1.7	0.9	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)