

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: P453233

Luminaire Tested: **GALN-SA4B-727-U-T4W-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P453233
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-SA4B-727-U-T4W-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2700K, 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: 13618 lumens
Efficiency: N/A
Efficacy: 83.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

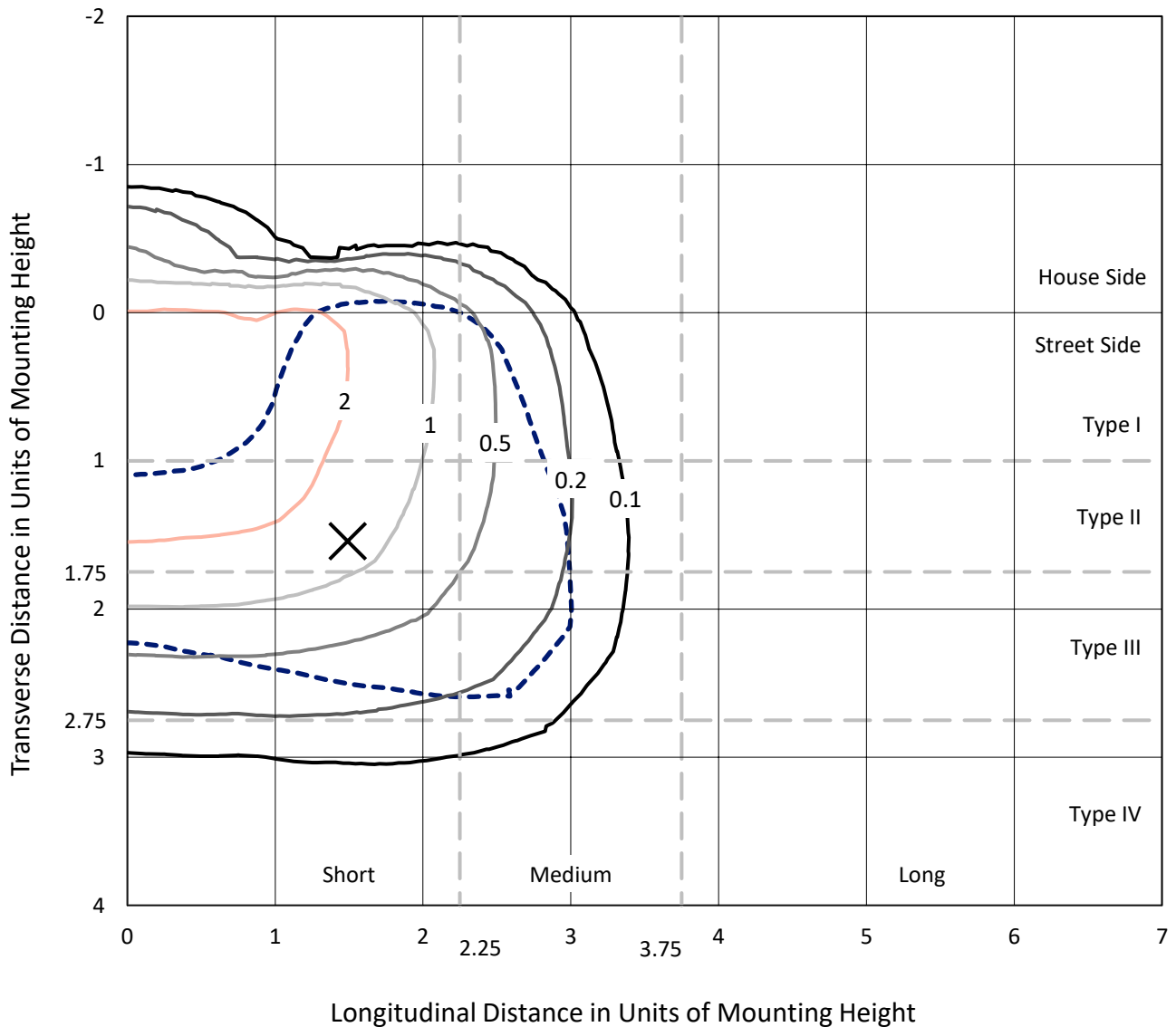
Input Watts (W): 164
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

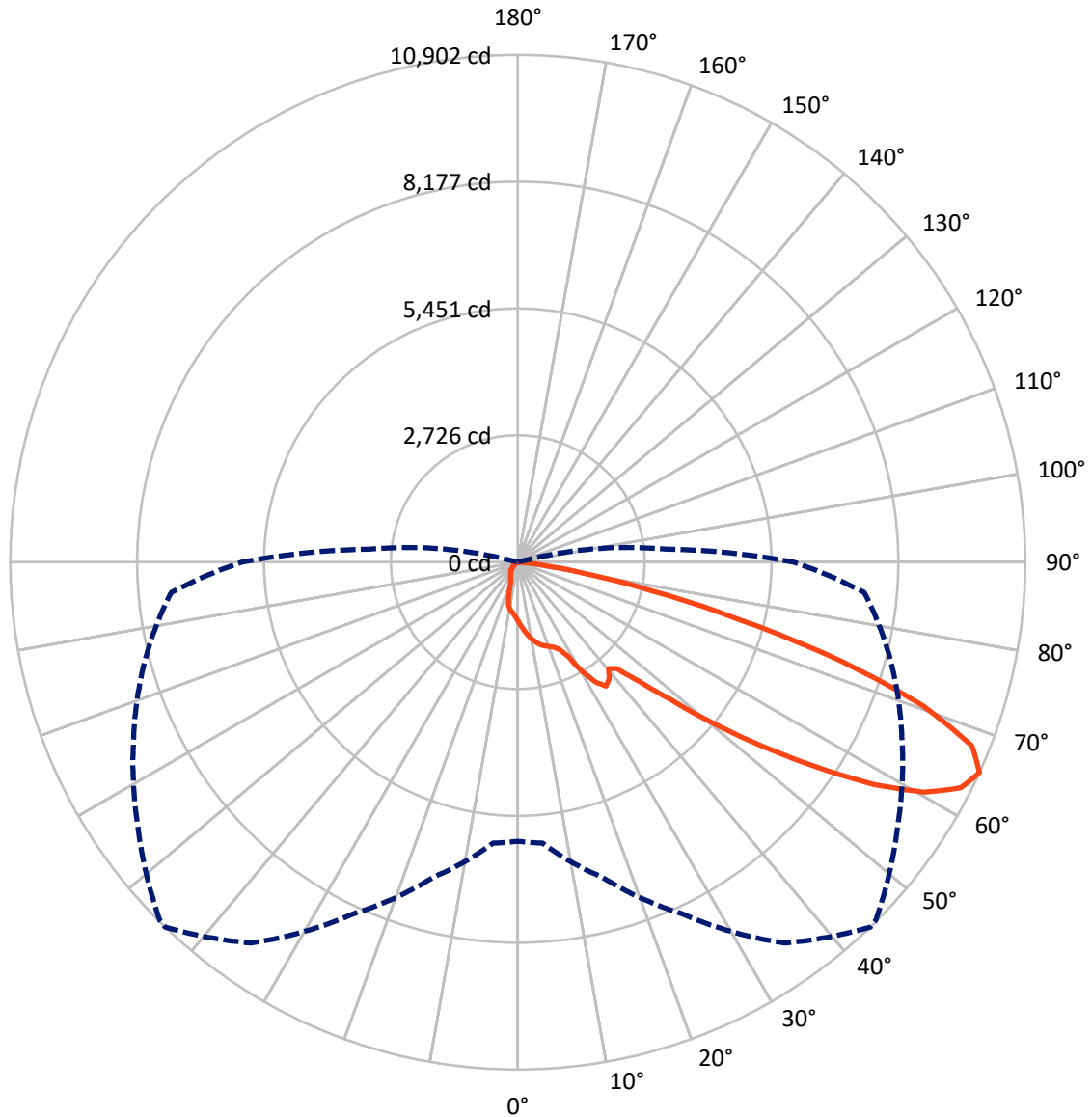
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 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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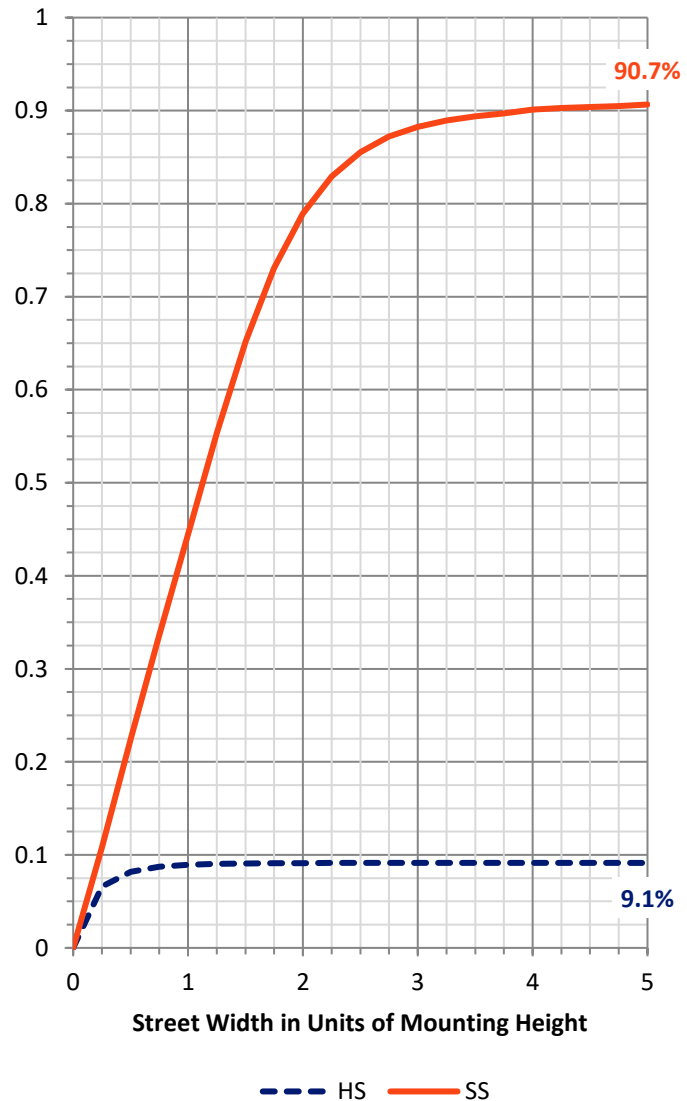
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1254.7	0.0	1254.7
	% Fixture	9.2	0.0	9.2
Street Side	Lumens	12363.3	0.0	12363.3
	% Fixture	90.8	0.0	90.8
Total	Lumens	13618.0	0.0	13618.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	126.1	0.9
10°-20°	379.4	2.8
20°-30°	643.3	4.7
30°-40°	1069.6	7.9
40°-50°	1867.6	13.7
50°-60°	3648.6	26.8
60°-70°	4233.2	31.1
70°-80°	1541.5	11.3
80°-90°	108.6	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°	13618.0	100.0
0°-180°	13618.0	100.0



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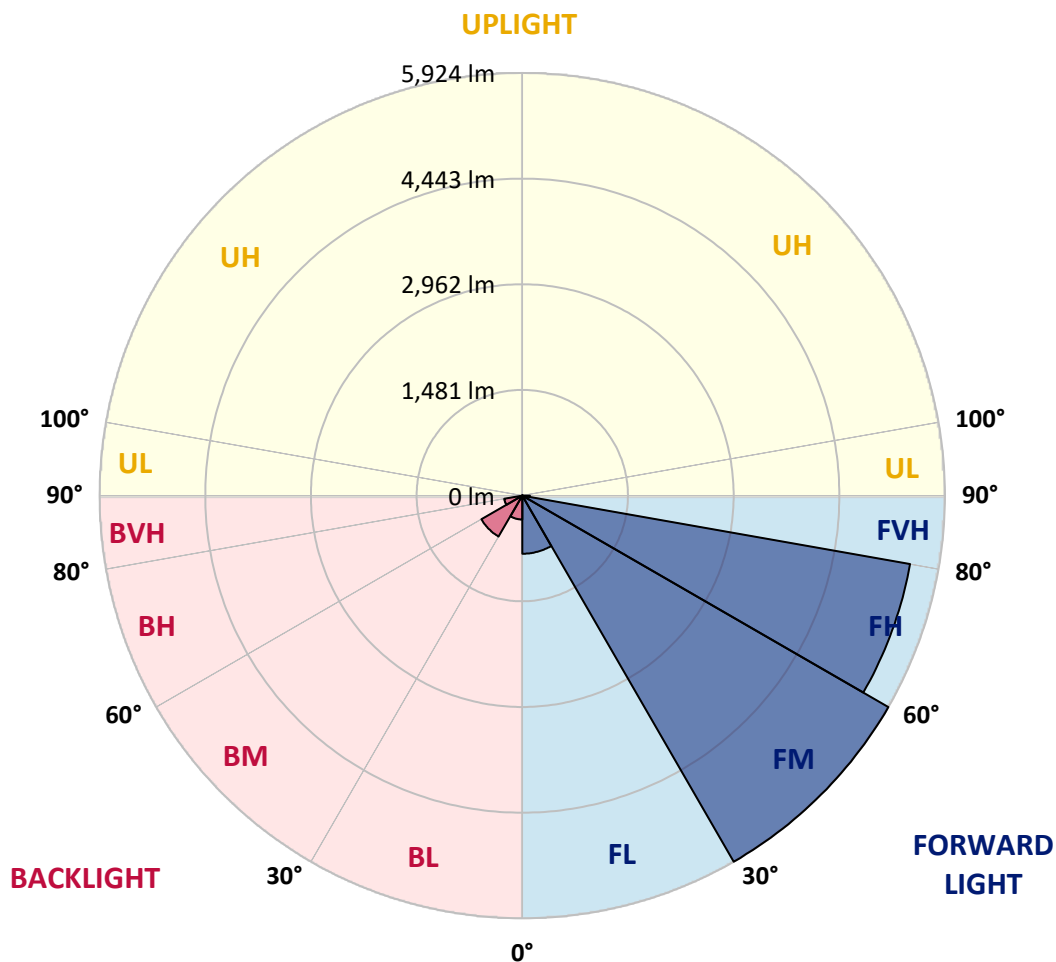
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	814.5	6.0			
FM	(30°-60°)	5923.8	43.5			
FH	(60°-80°)	5517.8	40.5			G3/7500
FVH	(80°-90°)	107.1	0.8			G2/225
BL	(0°-30°)	334.3	2.5	B1/500		
BM	(30°-60°)	662.0	4.9	B1/1000		
BH	(60°-80°)	256.9	1.9	B1/500		G1/500
BVH	(80°-90°)	1.5	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-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	44°	45°	55°	65°	75°	85°
0°	1267.4	1267.4	1267.4	1267.4	1267.4	1267.4	1267.4	1267.4	1267.4	1267.4	1267.4
2.5°	1426.6	1420.4	1417.3	1400.6	1388.1	1372.5	1372.5	1352.8	1329.9	1304.9	1282.0
5°	1585.8	1575.4	1561.9	1547.3	1518.2	1476.6	1476.6	1435.0	1387.1	1344.4	1297.6
7.5°	1738.8	1729.4	1706.6	1678.5	1630.6	1586.9	1583.8	1523.4	1466.2	1401.7	1335.1
10°	1873.0	1865.8	1846.0	1791.9	1741.9	1684.7	1683.7	1616.0	1549.4	1470.3	1388.1
12.5°	1966.7	1967.7	1941.7	1889.7	1825.2	1771.1	1766.9	1700.3	1630.6	1545.3	1444.3
15°	2033.3	2033.3	2006.2	1948.0	1889.7	1841.8	1837.7	1779.4	1707.6	1615.0	1505.7
17.5°	2052.0	2058.3	2029.1	1977.1	1930.3	1888.7	1887.6	1838.7	1781.5	1692.0	1568.2
20°	2044.7	2051.0	2028.1	1987.5	1955.3	1931.3	1928.2	1908.4	1855.4	1771.1	1634.8
22.5°	2029.1	2035.4	2018.7	1994.8	1979.2	1986.5	1981.3	1997.9	1969.8	1867.8	1713.8
25°	2032.3	2038.5	2026.0	2012.5	2026.0	2070.8	2084.3	2156.1	2131.1	1990.6	1799.2
27.5°	2130.1	2142.6	2124.9	2131.1	2179.0	2283.0	2309.1	2432.9	2322.6	2146.7	1932.4
30°	2347.6	2339.2	2305.9	2336.1	2502.6	2723.2	2715.9	2696.1	2523.4	2326.7	2090.5
32.5°	2545.3	2538.0	2535.9	2666.0	2967.7	3074.9	3069.7	2878.3	2703.4	2532.8	2246.6
35°	2625.4	2597.3	2591.1	2906.3	3411.0	3269.5	3237.3	2953.2	2922.0	2757.5	2405.8
37.5°	2866.8	2847.0	2750.3	2945.9	3234.1	3187.3	3162.3	3082.2	3155.0	2956.3	2585.8
40°	3364.2	3309.1	3221.6	3030.2	2983.4	3003.1	3028.1	3247.7	3430.8	3227.9	2826.2
42.5°	3982.3	3969.8	3807.5	3450.6	3099.9	3127.0	3159.2	3593.1	3827.3	3636.8	3218.5
45°	4724.2	4741.9	4507.8	4086.4	3626.4	3649.3	3696.1	4103.0	4364.2	4272.6	3835.6
47.5°	5398.5	5385.0	5305.9	4867.8	4443.3	4392.3	4468.3	4757.5	5107.2	5121.7	4601.5
50°	6077.0	6148.8	6031.2	5859.5	5544.2	5437.0	5408.9	5550.5	6083.2	6013.5	5521.3
52.5°	7052.0	7089.5	6868.9	6825.2	6897.0	6549.4	6521.3	6555.7	7032.3	6792.9	6210.2
55°	7664.9	7643.1	7560.9	7902.2	8186.3	7752.3	7717.0	7578.6	7820.0	7343.4	6873.0
57.5°	7858.5	7889.7	8081.2	8698.2	9370.4	9002.1	8937.6	8544.2	8388.1	7856.4	7482.8
60°	7772.1	7829.3	8242.5	9160.2	10092.6	10037.5	9982.3	9321.5	8796.0	8285.1	7910.5
62.5°	7157.1	7237.3	7898.0	9078.0	10337.1	10681.6	10612.9	9806.5	9067.6	8493.2	7985.4
65°	5997.9	6057.2	7006.2	8331.9	9989.6	10902.2	10877.2	9958.4	9110.3	8302.8	7472.4
67.5°	4275.8	4477.6	5356.9	7021.9	8961.5	10525.5	10568.2	9776.3	8709.7	7479.7	6188.3
70°	2687.8	2825.2	3455.8	5027.1	7184.2	9234.1	9374.6	8942.8	7558.8	5830.4	4142.6
72.5°	1282.0	1384.0	1833.5	3182.1	5070.8	7265.3	7376.7	7341.3	5845.0	3673.3	2137.4
75°	571.3	609.8	875.1	1624.3	3273.7	4883.5	5171.7	5219.6	3652.4	1797.1	831.4
77.5°	291.4	292.4	410.0	786.7	1634.8	2913.6	2970.9	3138.4	1980.2	791.9	289.3
80°	155.0	165.5	217.5	371.5	848.1	1435.0	1427.7	1569.2	878.3	388.1	96.8
82.5°	69.7	77.0	122.8	194.6	414.2	544.2	586.9	642.0	376.7	247.7	42.7
85°	20.8	25.0	60.4	97.8	149.8	157.1	175.9	226.8	213.3	175.9	21.9
87.5°	3.1	3.1	25.0	27.1	21.9	28.1	29.1	32.3	68.7	64.5	11.4
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°	1267.4	1267.4	1267.4	1267.4	1267.4	1267.4	1267.4	1267.4	1267.4	1267.4	1267.4
2.5°	1269.5	1262.2	1236.2	1214.4	1195.6	1184.2	1170.7	1162.3	1158.2	1155.0	1156.1
5°	1274.7	1257.0	1212.3	1176.9	1149.8	1120.7	1100.9	1089.5	1084.3	1076.0	1076.0
7.5°	1303.9	1275.8	1213.3	1159.2	1112.4	1072.8	1035.4	1021.9	1012.5	1010.4	1008.3
10°	1345.5	1310.1	1224.8	1149.8	1083.2	1029.1	976.1	929.2	892.8	871.0	867.8
12.5°	1397.5	1346.5	1242.5	1143.6	1058.3	962.5	822.1	727.4	663.9	644.1	647.2
15°	1445.4	1390.2	1260.1	1138.4	1012.5	798.1	638.9	530.7	498.4	495.3	496.4
17.5°	1502.6	1437.0	1281.0	1131.1	886.6	609.8	474.5	445.4	451.6	462.0	461.0
20°	1561.9	1487.0	1305.9	1087.4	707.6	458.9	419.4	422.5	431.8	441.2	443.3
22.5°	1625.4	1544.2	1335.1	982.3	540.1	399.6	397.5	401.7	411.0	421.4	423.5
25°	1712.8	1616.0	1356.9	845.0	408.9	369.4	373.6	380.9	389.2	400.6	402.7
27.5°	1825.2	1712.8	1368.4	666.0	353.8	342.4	343.4	353.8	364.2	374.6	374.6
30°	1970.9	1828.3	1345.5	503.6	326.7	316.3	312.2	318.4	331.9	342.4	343.4
32.5°	2100.9	1937.6	1285.1	385.0	307.0	292.4	282.0	283.0	288.2	294.5	295.5
35°	2231.0	2043.7	1182.1	323.6	286.2	269.5	253.9	245.6	241.4	238.3	241.4
37.5°	2397.5	2175.9	1044.7	294.5	268.5	247.7	225.8	208.1	193.5	184.2	186.3
40°	2611.9	2359.0	882.4	275.8	251.8	226.8	197.7	174.8	149.8	141.5	137.4
42.5°	2965.7	2636.8	711.8	260.1	235.2	205.0	168.6	137.4	114.5	106.1	108.2
45°	3524.5	2987.5	548.4	243.5	218.5	181.1	141.5	108.2	89.5	85.3	87.4
47.5°	4265.3	3441.2	422.5	224.8	197.7	155.0	111.3	85.3	73.9	72.8	71.8
50°	4962.5	3863.7	352.8	204.0	172.7	129.0	91.6	71.8	64.5	63.5	63.5
52.5°	5593.1	4166.5	287.2	180.0	145.7	106.1	77.0	63.5	57.2	54.1	54.1
55°	6154.0	4364.2	233.1	150.9	114.5	84.3	66.6	57.2	49.9	45.8	44.7
57.5°	6577.5	4388.1	174.8	120.7	85.3	65.6	57.2	49.9	41.6	36.4	34.3
60°	6758.6	4181.1	129.0	91.6	63.5	52.0	45.8	40.6	31.2	26.0	25.0
62.5°	6576.5	3778.4	95.7	69.7	48.9	38.5	32.3	30.2	21.9	15.6	14.6
65°	5924.0	3196.7	76.0	53.1	36.4	28.1	20.8	19.8	13.5	7.3	6.2
67.5°	4746.1	2503.6	60.4	39.5	26.0	18.7	13.5	12.5	7.3	2.1	2.1
70°	3086.4	1600.4	48.9	29.1	16.6	12.5	8.3	6.2	4.2	1.0	0.0
72.5°	1526.5	748.2	39.5	22.9	11.4	6.2	3.1	2.1	3.1	0.0	0.0
75°	592.1	266.4	29.1	15.6	6.2	3.1	2.1	0.0	1.0	0.0	0.0
77.5°	196.7	88.4	17.7	8.3	4.2	2.1	0.0	0.0	0.0	0.0	0.0
80°	72.8	34.3	9.4	5.2	2.1	1.0	0.0	0.0	0.0	0.0	0.0
82.5°	29.1	13.5	6.2	4.2	2.1	0.0	0.0	0.0	0.0	0.0	0.0
85°	14.6	8.3	4.2	3.1	2.1	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	10.4	6.2	4.2	3.1	2.1	1.0	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)